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SOFTWARE ACQUISITION MANAGEMENT GUIDEBOOK, REGULATIONS, SPECIFI--ETC(U)

NOV 78 J B GLORE, M P FRIEDMAN, S M GOHEEN

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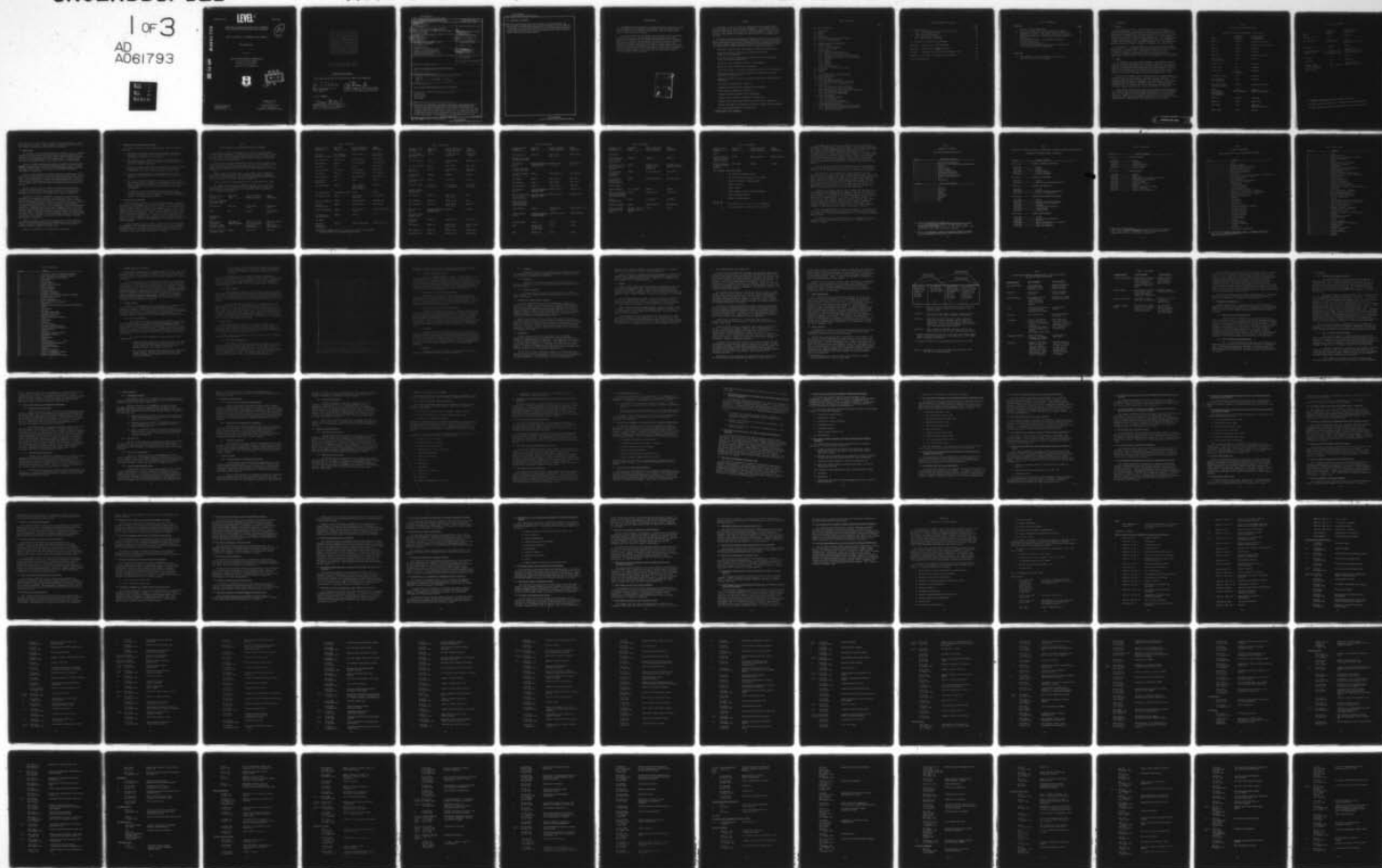
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SOFTWARE ACQUISITION MANAGEMENT GUIDEBOOK
REGULATIONS, SPECIFICATIONS, AND STANDARDS

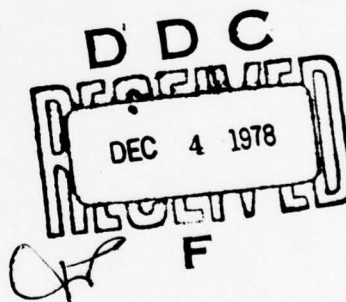
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DEPUTY FOR TECHNICAL OPERATIONS

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AIR FORCE SYSTEMS COMMAND
UNITED STATES AIR FORCE
Hanscom Air Force Base, Massachusetts



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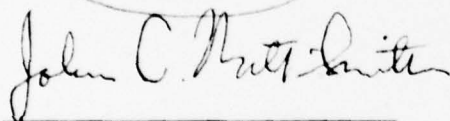
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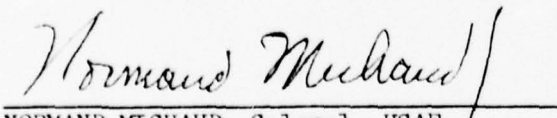


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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This is one of the ESD Software Acquisition Management (SAM) Guidebook series. It identifies and categorizes regulations, specifications, and standards (RSS) relevant to acquisition of software for Air Force systems. This volume is a major revision of ESD-TR-75-91 (MTR-3080), October 1975. It identifies the version of each document mentioned in the original RSS guidebook and still in effect when this revision was prepared. It also identifies the additional RSS referenced in the 235 050 (cont'd.)		

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20. ABSTRACT (concluded)

Other SAM guidebooks plus many other documents considered pertinent. The material has been substantially reorganized and reformatted for easier reference. For example, as an aid to retrieval by subject, the revision includes a Keyword in Context (KWIC) index of the titles and key title phrases of the relevant documents in effect when this revision was prepared.

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Several persons besides the authors have contributed to the preparation of this revised report. Joseph Connolly, author of the original RSS guidebook, is responsible for identifying originally most of the documents cited in this revision. He also prepared the original version of Section 3, which appears somewhat condensed in this revision, and of most of the summaries of documents abstracted in Section 4. Special thanks also are due to Patricia McNulty, who identified the indexes to many types of documents, to Arline Smith, who spent much effort updating and cross-checking the master lists of documents, and to Jane McCarthy and Lois Detlefsen for their efficient typing and editing effort.

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PREFACE

This report is one in a series of guidebooks intended to help Program Office personnel in software acquisition management. The guidebooks will be revised periodically to reflect changes in software acquisition policies and practices, and feedback from users. The current guidebook is a major revision of the original guidebook on Regulations, Specifications and Standards, ESD-TR-75-91.

The Software Acquisition Management Guidebooks currently planned are listed below. Except for those titles that begin "An Air Force Guide", the following are actually subtitles that follow "Software Acquisition Management Guidebook:". ESD Technical Report numbers and National Technical Information Service (NTIS) accession numbers for those published to date are shown in parentheses.

Regulations, Specifications and Standards (ESD-TR-75-91; AD-A016401)*

An Air Force Guide to Contracting for Software Acquisition
(ESD-TR-75-365; AD-A020444)

An Air Force Guide for Monitoring and Reporting Software Development
Status (ESD-TR-75-85; AD-A016488)

Statement of Work Preparation (ESD-TR-77-16; AD-A035924)

Reviews and Audits (ESD-TR-78-117; AD-A052567)

An Air Force Guide to Configuration Management (ESD-TR-77-254; AD-A047308)

An Air Force Guide to the Computer Program Development Specification
(ESD-TR-78-139; AD-A055573)

An Air Force Guide to Software Documentation Requirements (ESD-TR-76-159;
AD-A027051)

Verification (ESD-TR-77-263; AD-A048577)

Validation and Certification (ESD-TR-77-326; AD-A053039)

Series Overview (ESD-TR-78-141; AD-A055575)

Software Maintenance (ESD-TR-77-327; AD-A053040)

Software Quality Assurance (ESD-TR-77-255; AD-A047318)

Software Cost Estimation and Measurement (ESD-TR-78-140; AD-A055574)

Software Development and Maintenance Facilities (ESD-TR-77-130; AD-A038234)

Life Cycle Events (ESD-TR-77-22; AD-A037115)

* Superseded by this guidebook.

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1. INTRODUCTION

1.1 Purpose

This guidebook is one of a series intended as aids to software acquisition management. Specifically, it identifies official Regulations, Specifications, and Standards (RSS), and other publications, relevant to the acquisition of Command, Control and Communications (C³) software by the Air Force Electronic Systems Division (ESD). However, much of the guidebook's content should pertain to other Air Force acquisitions. The contents will be revised periodically as a result of feedback from users, and to identify changed, new, and superceded or rescinded documents. Thus, the authors will appreciate hearing of errors, omissions, and suggestions for improvement.

The guidebook is intended primarily as an index of potentially useful publications. It is a reference source in the sense that it lists documents, both by title and subject (i.e., title keyword), and gives a brief introduction to types of documents relevant to software acquisition. Information regarding the pertinence, quality and usefulness of many of the publications listed is mainly discussed in other guidebooks within the series.

1.2 Scope

This guidebook lists and indexes documents of many types from several sources. Preeminent among these are Department of Defense (DoD), Air Force (AF), Air Force Systems Command (AFSC), and ESD regulations, specifications, standards, standard data item descriptions (DIDs), and technical reports. Some of these documents deal specifically with software; others (e.g., those about cost control systems) are concerned with the environment in which software is acquired. Altogether, more than 700 documents are listed.

Generally, the emphasis is on documents relevant to computer systems acquired as parts of major systems. The latter are large systems that perform important operational functions and typically incorporate computers, communications, or sensors as subsystems. More specifically, this guidebook emphasizes documents about the software components of computer systems acquired by ESD. Of somewhat less concern are commercially developed (off-the-shelf) computer programs which may be acquired for Air Force use.

The documents cited have been selected by reviewing the SAM guidebooks, and indexes of appropriate publications, supplemented by personal knowledge and, in a few cases, by specific suggestions from others. The versions of (and latest changes to) these documents are generally those cited in the versions of their appropriate indexes available to us on 30 June 1978. These index versions, listed in Table 1, are not necessarily the latest

Table 1
INDEXES TO LISTED PUBLICATIONS

(Appendix A contains these indexes' full titles.)

<u>INDEX</u>	<u>REFERENCED ISSUE</u>	<u>REVISION PERIOD AND DATE*</u>
AFLCR 0-2	7/31/74	Quarterly (1,4,7,10)
AFR 0-2	4/7/78	Every four months (4,8,12)
AFR 0-4	8/13/76	Irregular
AFR 0-15	9/9/77	Irregular
AFSCR 0-2	4/3/78	Quarterly (1,4,7,10)
ASPR Table of Sections & Parts	7/1/76	Annual (7)
DA PAI 310-1	3/77	Irregular
DA PAI 310-3	6/77	Irregular
DA PAI 310-4	11/74 10/75 Change 3	Irregular
DLA Handbook 5025.1	7/77	Irregular
DoD 5000.19-L, Vol. II (AMSDL)	11/77	Irregular
DoD 5025.1-I (DoD Directives System)	9/30/77	Quarterly (3,6,9,12)
DoDISS (DoD Index of Specifications and Standards)	7/1/77 3/1/78 Supplement	Annual (7) Bimonthly Supplements
ESDR 0-2	12/14/77	Irregular
JANAP 201	10/77	Annual (10)
NASI Index	1/78	Annual (1) Supplements (4,8,12)
NAVSUP 2002	11/77	Unknown

Table 1 (Concluded)

<u>INDEX</u>	<u>REFERENCED ISSUE</u>	<u>REVISION PERIOD AND DATE*</u>
NBS Pub List 84	6/77	Irregular
NBS Spec Pub 305	4/69 6/77 Supplement	Basic** Supplemented Annually
OMB Index	Undated	Varies
Technical Abstracts Bulletin (TAB)	4/76 9/77 Quarterly Sup. 3/3/78 Biweekly Sup.	Annual*** (4) Quarterly (3,6,9,12) Biweekly Supplements
TO 0-1-01	11/77	Monthly
TO 0-4-6-1	6/77	Annual (6)
US Govt. Pubs (Monthly Catalog of U. S. Government Publications)	7/77 12/77 Supplement	Annual*** (1,7) Monthly Supplements

* Numbers in parentheses indicate months of the year.

** Basic index is not revised; it is updated with annual supplements.

*** Annual cumulation does not include documents for preceding years.

published as of that date, because of delays in their distribution. In the few cases where we knew of a later version of a document than that shown in this version of its index, we listed this later version.

1.3 Organization

The remainder of this guidebook explains the different kinds of documents pertinent to software acquisition for Air Force systems, provides various listings of these documents, including a subject index (in Keyword In Context (KWIC) form), and suggests ways to use these listings. It also contains abstracts of selected documents, and an extensive list of abbreviations.

Section 2, Software Acquisition Documents, identifies relevant document sources, including Air Force and other government agencies as well as non-government organizations. Section 2 also describes major types of documents published by these sources, of interest in the management of software development or acquisition.

Section 3, Data Automation and System Acquisition, discusses two series of Air Force regulations, the AFR 300 series and the AFR 800 series, that are applied in the acquisition of software for ESD-managed systems. These two series, their applicability, the major differences between them, and some of their important common characteristics, are treated here extensively because they so strongly affect how ESD acquisition programs involving software are managed.

Section 4 contains over 60 abstracts of selected active documents relevant to software acquisition. These include some, but not all, of the documents most important for ESD-managed C³ systems. The abstracts are presented in the same order as the documents are listed in Appendix A.

Appendices A, B and C, respectively, contain three master lists of documents, each arranged by publishing organization (military or other), document type, and document identifier (ID). Appendix A contains a master list of all documents currently in effect that have been cited in at least one of the existing SAM guidebooks, or that the authors of this guidebook otherwise deem potentially useful in the management of software development or acquisition. Appendices B and C list other documents cited in the previous version of this RSS guidebook (ESD-TR-75-91). Appendix B lists those that have been either superceded, rescinded or otherwise dropped (for reasons we have been unable to determine) from the appropriate index, and which are thus no longer in force. Appendix C lists the documents mentioned in ESD-TR-75-91 that are still in force, but that we deem of little relevance to software development or acquisition.

Appendix D contains a KWIC index of the documents listed in Appendix A. Appendix D contains one entry for each Appendix A title and for each (non-initial) title phrase deemed significant. These entries are sorted by significant phrase to comprise a subject index.

Finally, an extensive List of Abbreviations is provided.

1.4 Comparison with Previous RSS Guidebook

The current version of the RSS guidebook differs from the original in several ways:

- a. The material on document sources, document types, and document supplements in Section I of the original has been revised and incorporated in Sections 2.1, 2.2, and 2.4.
- b. The original Section I information about document indexes and publications programs (e.g., in its Table I) has been replaced by Section 2.3, Table 1, and Table 2.
- c. Section II, Software Development in the System Life Cycle, has been dropped, since its subject matter has since been covered more thoroughly by the Life Cycle Events guidebook (ESD-TR-77-22).
- d. Section III, Data Automation and System Acquisition, has been updated, condensed slightly, and reorganized. It now appears as Section 3.
- e. The lists of documents by category contained in Sections IV and V have been replaced by the master lists in Appendices A-C and by the subject (KWIC) index in Appendix D. The KWIC index also replaces the original Appendix II, Air Force Software Acquisition Management Bibliography.
- f. All summaries of relevant documents still in force that were contained in Appendix I of the original RSS Guidebook now appear in Section 4, with minor editorial changes. Section 4 also includes abstracts of a few additional documents.

1.5 How to Use This Guidebook

The RSS Guidebook can be used to locate information about a particular document or to find documents on a particular subject. To find a particular document given its publishing agency (i.e., its source), the document ID, or type of document, look in the master lists (Appendices A-C). Each of these appendices lists documents first by agency, next by document type, and then alphanumerically by document ID. Table 2 has been designed, in part, as an aid to searching these appendices. Its entries are in the same order as the sources and types of Appendices A-C. Each entry in these appendices also indicates the latest known version's publication date, and the identities and publication dates (if known) of any supplements to the document by lower-echelon commands.

To find a document by title or subject, search the KWIC Index (Appendix D). Appendix D lists alphabetically each Appendix A title and title phrase deemed significant. Each entry consists of the document title (possibly permuted so that all the significant phrases are aligned) followed by the document ID, which can be used as an index into Appendix A.

Table 2

SOURCES AND TYPES OF RSS AND OTHER RELEVANT DOCUMENTS

This table lists the sources and types of the RSS and other documents presented in this guidebook. The name of each source is capitalized in column 1. Each source's name is followed by entries for each type of document that the source issues if that type may include documents relevant to acquisition of software for ESD-managed systems.

For each type of document mentioned in column 1, column 2 identifies the applicable index. The latest issue of this index lists the document's current title, version identification, version date, and current status. These indexes and the publication dates of the latest issues known to us, are listed in Table 1.

Column 3 shows the general format of each document type's document ID. These general formats are depicted in a notation that encodes the variable part of each type's document ID. The KEY TO GENERAL IDENTIFIER FORMAT, which appears at the end of the table, explains this notation.

Column 4 contains an example document ID for each document type listed.

The entries in this table are arranged in the same order as the source and type categories of the documents listed in Appendices A-C (except that these appendices lack instance of a few categories). This is intended to help in searching the appendices.

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
OFFICE OF MANAGEMENT AND BUDGET (OMB)			
OMB Circulars	OMB Index	OMB Circular <C-n*>	OMB Circular A-109
Other	None	Various	OFPP Pamphlet No. 1
DEPARTMENT OF DEFENSE			
Armed Services Procurement Regulation (ASPR) Sections and Parts	<u>ASPR Table of Sections & Parts</u>	ASPR Section <r*>, Part <n*> or ASPR <n*-n*[a*> or ASPR Appendix <c>	ASPR Section XVII Part 1 or ASPR 3-104b or ASPR Appendix J
Defense Procurement Circulars (DPCs)	AFR 0-4	DPC <yy-n*>	DPC 74-3

Table 2 (Continued)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
Data Item Descriptions (DIDs)	DoD 5000.19-L, Vol.11 (AMSDL)	[U]DI-<c-n*[c]>	DI-E-3120A or UDI-F-20023
DoD Directives	DoD 5025.1-1	DoDD <nnnn.n*>	DoDD 4105.62
DoD Handbooks	AFR 0-4	DoD <nnnn.n*-H>	DoD 4100.39-H
DoD Indexes	None	None	DoD 5025.1-1
DoD Instructions	DoD 5025.1-1	DoDI <nnnn.n*>	DoDI 5125.7
DoD Manuals	AFR 0-4	DoD <nnnn.n*-M>	DoD 5200.18-M
DoD Regulations	AFR 0-4	DoD <nnnn.n*-R>	DoD 4500.32-R
DoD Circulars and Notices	None	Varies	Varies
DLA Publications	AFR 0-15	DIAI <n*-n*[c]> DIAI <n*-n*[c]> DIAR <n*-n*[c]>	DIAI 65-1
DLA Publications	DLA Handbook 5025.1	Varies	Varies
JCS Publications	AFR 0-4	JCSP <n[Vn] [PTn] [Cn]>	JCSP 6V2PT1C6
Military Handbooks	DoDISS	MIL-HDBK <n*[c]>	MIL-HDBK 217B
Military Specifications	DoDISS	MIL-<c-n*[c]>	MIL-M-24100B
Military Standards	DoDISS	MIL-STD-<n*[c] [(c*)]>	MIL-STD-499A (USAF)
Miscellaneous DoD Publications	DoDISS	Varies	LCC 1
AIR FORCE			
Air Force Acquisition Documents**	AFR 0-4	AFAD <nn-n*[-(n*)]>	AFAD 71-531-(13)

** Includes documents previously classified as Air Force Procurement Circulars and Air Force Procurement Instructions.

Table 2 (Continued)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
Air Force ASPR Supplement Sections and Parts	AFR 0-4	AF ASPR Sup <n*- n*.n*[a*]>	AF ASPR Sup 1-2100.50
Air Force Manuals	AFR 0-2	AFM <n*-n*[Vol. <p*>]>	AFM 66-1, Vol. 2
Air Force Pamphlets	AFR 0-2	AFP <n*-n*>	AFP 70-19
Air Force Regulations	AFR 0-2	AFR <n*-n*[Vol. <p*>]>	AFR 800-14, Vol. II
USAF Standard Drawings	Unknown	Unknown	Unknown
USAF Specification Bulletins	DoDISS	BU <n*[c]>	BU 518A
Technical Orders	TO 0-1-01 TO 0-4-6-1	TO <nn-n*-n*> TO <n-n*-n*[-n]>	TO 00-5-15 TO 0-4-6-1
AIR FORCE LOGISTIC COMMAND (AFLC)			
AFLC Manuals	AFLCR 0-2	AFLCM <n*-n* [Vol. <n>]>	TBD
AFLC Pamphlets	AFLCR 0-2	AFLCP <n*-n*>	TBD
AFLC Regulations	AFLCR 0-2	AFLCR <n*-n* [Vol. <n>]>	AFLCR 0-2
AFLC Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	Unknown	Unknown
AIR FORCE SYSTEMS COMMAND (AFSC)			
AFSC Design Handbooks	AFSCR 0-2	AFSC DH <n-n>	AFSC DH 4-2
AFSC Manuals	AFSCR 0-2	AFSCM <n*-n* [Vol. <n>]>	AFSCM 171-480, Vol. 1
AFSC Pamphlets	AFSCR 0-2	AFSCP <n*-n*>	AFSCP 800-15
AFSC Periodicals	AFSCR 0-2	AFSCR P <n*-n>	AFSCR P 800-1

Table 2 (Continued)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
AFSC Regulations	AFSCR 0-2	AFSCR <n*-n* [Vol. <n>]>	AFSCR 800-18
AERONAUTICAL SYSTEMS DIVISION (AFSC/ASD)			
ASD Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	ASD-TR-<yy-n* [, Vol. p*]>	ASD-TR-76-11, Vol. III
ELECTRONIC SYSTEMS DIVISION (AFSC/ESD)			
ESD ASPR Supplement Sections	ESDR 0-2	ESD ASPR Sup <n>	ESD ASPR Sup 1
ESD Manuals	ESDR 0-2	ESDM <n*-n*>	ESDM 70-10
ESD Pamphlets	ESDR 0-2	ESDP <n*-n*>	ESDP 800-4
ESD Regulations	ESDR 0-2	ESDR <n*-n*>	ESDR 80-1
ESD Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	ESD-TR-<yy-n*>	ESD-TR-77-16
Rome Air Development Center (RADC) Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	RADC-TR-<yy-n*>	RADC-TR-74-300
SPACE AND MISSILE SYSTEMS ORGANIZA- TION (AFSC/SAMSO)			
SAMSO Exhibits	Unknown	SAMSO Exhibit <yy-n*>	SAMSO Exhibit 73-3
SAMSO Technical Reports	<u>Technical Abstracts Bulletin (TAB)</u>	SAMSO-TR-<yy-nn*>	SAMSO-TR-68-268
OTHER AIR FORCE	Varies	Varies	Varies
ARMY	DA PAM 310-1 DA PAM 310-3 DA PAM 310-4	Varies	Varies
NAVY	NAVSUP 2002	Varies	Varies

Table 2 (Continued)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
INTERSERVICE			
Joint Army/Navy/ Air Force/DASA Publications	JANAP 201	JANAP <n*>	JANAP 123
Military/Air Force/ Navy Aeronautical Bulletins	DoDISS	MIL-BULL <n*> or ANA-BULL <n* [REV-<n>]>	MIL-BULL 100, or ANA-BULL 107 REV-8
Air Force/Navy Aeronautical Standards	DoDISS	AN <n*[REV-<n>]>	AN 362 REV-6
Air Force/Navy Aeronautical Design Standards	DoDISS	AND <n*[REV-<n>]>	AND 10104 REV-3
OTHER FEDERAL			
Federal Handbooks	US Govt. Pubs	Unknown	Unknown
Federal Information Processing Standards (FIPS) Publications	DoDISS	FIPS Pub <n*>	FIPS Pub 28
Federal Specifications	DoDISS	<c-c-n*[c]>	C-N-200A
Federal Standards	DoDISS	FED-STD-<n*[c]>	FED-STD-356A
Other (e.g., NBS Special Publica- tions)	NBS Pub. List 84 NBS Spec. Pub. 305 Other	Varies	Varies

Table 2 (Concluded)

<u>Document Sources and Types</u>	<u>Applicable Index</u>	<u>General Identifier Format (See Key)</u>	<u>Sample Identifier</u>
OTHER			
American National Standards Institute (ANSI) Standards	DoDISS	ANSI-<cn.n*-19yy>	ANSI-X3.37-1977
National Aerospace Standards Institute Standards	NASI Index	Unknown	Unknown

KEY TO GENERAL IDENTIFIER FORMAT:

- < > = The enclosed information varies
- [] = The enclosed information may not be present
- a = Lower case letter, or Arabic numeral
- c = Upper case letter
- n = Arabic numeral
- p = Arabic numeral or upper case Roman numeral
- q = Lower case Roman numeral
- r = Upper case Roman numeral

- a*, c*, n*,
p*, q*, r* = One or more of a, c, n, p, q, or r, respectively
- yy = Last two digits of year (e.g., "77" for "1977")

The document IDs of some types of documents are broadly categorized, providing an additional way to search by subject. Data Item Description (DID) IDs include a variable letter before the number (e.g., DI-A-3023, DI-S-3608) that indicates one of several "functional categories", such as "Administrative/ Management", "System/Subsystem Analysis", and "Test". These are shown in Table 3. In Appendices A-C the DID entries are arranged within these categories to facilitate search by subject. Table 3 also shows the correspondence between the first digit of a DID ID and the DoD Component (e.g., Army, Navy, Air Force) responsible for developing the DID. For example, DI-A-3023 and DI-S-30569 are Air Force DIDs, while DI-R-1732 is an Army DID.

The first two digits of the IDs of DoD Directives and DoD Instructions also represent subject categories, which Table 4 depicts. Although these categories are quite broad, they may help locate related sets of documents.

The document IDs of the regulations, manuals, pamphlets and some periodicals issued by the Air Force and its subordinate commands (e.g., AFSC, ESD) incorporate a somewhat finer subject-matter code, the series number. The numeric part of the document ID consists of a left-most series number (1-3 digits) separated by a dash (-) from a right-most serial number assigned within the series (e.g., AFR 0-2, AFR 5-1, AFSCM 80-5, ESDP 800-4). The series numbers, defined in Table 5, are standard within the Air Force. In Appendices A-C the document entries of each type issued by each Air Force agency are arranged by series to facilitate search by subject.

In addition to providing subject, title, document ID, publication date, and information about supplements, the guidebook identifies the sources of this information. For example, before relying too heavily on a document, one should consult its latest index to see if the document is current. Table 2 identifies the index applicable to each type of document, and Table 1 identifies that index's update frequency (if known), and the index version used to prepare this guidebook. This information makes it possible to determine whether an index has been revised since this version of the guidebook was prepared, and if so, which version of that index should be searched to identify the current version of a document of interest.

Further information about selected active documents is also provided in Section 4. This abstracts those documents still current and pertinent that were summarized in the original RSS guidebook, plus a few especially important additional ones.

In addition, Section 2 (especially Section 2.5, Indexes) and Section 3 should be reviewed for additional explanations that may help to locate documents of interest.

Table 3
DEPARTMENT OF DEFENSE
DATA ITEM DESCRIPTION CATEGORIES

Letter	Functional Category*
A	Administrative/Management
E	Engineering and Configuration Documentation
F	Financial
H	Human Factors
L	Logistic Support
M	Technical Publications
P	Procurement/Production
R	Related Design Requirements
S	System/Subsystem Analysis
T	Test
V	Provisioning
1st Digit	Originating Agency**
1	Army
2	Navy/USMC
3	Air Force
4	ODDR&E
5	OASD(I&L)
6	Unassigned
7	OASD(C)
8	DSA
9	NSA

* Taken from Department of Defense Authorized Data List -- Index of Data Item Descriptions (TD-3). TD-3 has recently been superseded by DoDD 5000.19-L, Vol. II, (see next footnote), which unfortunately omits these functional categories.

** Taken from Department of Defense Acquisition Management Systems and Data Requirements Control List (DoDD 5000.19-L, Vol. II).

Table 4

DEPARTMENT OF DEFENSE DIRECTIVES, INSTRUCTIONS, HANDBOOKS, MANUALS AND REGULATIONS
PRIMARY AND SECONDARY SUBJECT CATEGORIES*

Series #	Subject Category
1000 Series	MANPOWER, PERSONNEL AND RESERVE
1000-1099	General
1100-1199	Manpower
1200-1299	Reserve Forces
1300-1399	Military Personnel
1400-1499	Civilian Personnel
2000 Series	INTERNATIONAL PROGRAMS
2000-2099	General
2100-2199	Mutual Grant and Reimbursable Aid
3000 Series	PLANNING AND READINESS
3000-3099	General
3100-3199	Military Planning and Readiness
3200-3299	Research and Engineering
4000 Series	LOGISTICS AND RESOURCES MANAGEMENT
4000-4099	General
4100-4199	Property and Supply Management
4200-4299	Production and Requirements
4300-4399	Unassigned
4400-4499	Priorities and Allocations
4500-4599	Transportation
4600-4699	Communications
5000 Series	GENERAL ADMINISTRATION
5000-5099	General
5100-5199	Organization and Functions
5200-5299	Security
5300-5399	Office and Administrative Services
5400-5499	Public Information
5500-5599	Legal and Legislative

Table 4 (Concluded)

Series #	Subject Category
6000 Series	HEALTH AND MEDICAL
6000-6099	General
6100-6199	Unassigned
6200-6299	Preventive Medicine
6300-6399	General Medicine
6400-6499	Special Fields
7000 Series	COMPTROLLERSHIP
7000-7099	General
7100-7199	Budgeting
7200-7299	Appropriations Accounting and Control
7300-7399	Disbursements and Receipts
7400-7499	Revolving Funds
7500-7599	Property Accounting
7600-7699	Auditing
7700-7799	Reports, Statistics and Forms
7800-7899	Contract Financing
7900-7999	Automatic Data Processing

* Taken from the DoD Directive System, "Quarterly Index of DoD Issuances and of Final Opinions, Statements of Policy, Administrative Staff Manuals and Instructions which Affect the Public."

Table 5

AIR FORCE PUBLICATIONS

SERIES NUMBER AND SUBJECT CLASSIFICATION SYSTEM*

Series #	Subject
0	Indexes
1	Aerospace Doctrine
2	Aerospace Operational Doctrine
3	Mission Employment Tactics
4	Administration Management
5	Publications Management
6	Reproduction
7	Publications and Forms Requirements and Distribution
8	Special Publications Systems
9	Forms Management
10	Administrative Communications
11	Administrative Practices
12	Documentation
13	Writing Improvement
18	Energy Conservation
19	Environmental Protection
20	Organization and Mission -- General
21	Organization and Mission -- Departmental
23	Organization and Mission -- Field
25	Management Engineering
26	Manpower
27	Programming
28	War Planning
30	Personnel
31	Military Records
33	Military Personnel Procurement
34	Personnel Services
35	Military Personnel
36	Officer Personnel
39	Enlisted Personnel
40	Civilian Personnel
45	Reserve Forces
46	Civil Air Patrol
50	Training
51	Flying Training
52	Technical Training
53	Schools
55	Operations
57	Operational Requirements

* Taken from the Numerical and Subject Index of Standard Publications and Recurring Periodicals (AFR 0-2).

Table 5 (Continued)

Series #	Subject
60	Flying
64	Search and Rescue
65	Maintenance -- Engineering and Supply
66	Equipment Maintenance
67	Supply
68	Redistribution and Marketing
69	Storage and Warehousing
70	Procurement
71	Packaging and Materials Handling
72	Federal Supply Cataloging
73	Standardization
74	Quality and Reliability Assurance
75	Transportation and Traffic Management
76	Military Airlift
77	Motor Vehicles
78	Industrial Resources
79	Industrial Manpower
80	Research and Development
81	Specifications and Standards
82	Designating and Naming Defense Equipment
84	Production
85	Civil Engineering -- General
86	Civil Engineering Programming
87	Real Property Management
88	Facility Design and Planning
39	Facility Construction
90	Housing
91	Real Property Operation and Maintenance
92	Civil Engineering -- Fire Protection
93	Special Civil Engineering
95	Audio Visual Systems
96	Mapping, Charting, and Geodesy
100	Communications -- Electronics
101	Electronics Systems
102	Command and Control and Communications
105	Weather
110	Judge Advocate General
111	Military Justice
112	Claims
120	Inspector General
121	Special Subjects for Inspection
122	Nuclear Safety
123	Inspection
124	Special Investigations
125	Security Police
126	Natural Resources
127	Safety
136	Armament

Table 5 (Concluded)

Series #	Subject
140	Housekeeping and Non-housekeeping Quarters
143	Graves Registration and Mortuary Affairs
144	Fuels, Propellants and Chemicals
145	Commissaries
146	Food Service
147	Exchange Service
148	Laundry and Dry Cleaning
160	Medical Service
161	Aerospace Medicine
162	Dental Services
163	Veterinary Services
164	Aeromedical Evacuation
165	Automatic Data Processing Systems in Support of Health Care Delivery
167	Medical Material
168	Medical Administration
169	Medical Education and Research
170	Comptroller
171	Automatic Data Processing Systems and Procedures
172	Budget
173	Cost Analysis
175	Auditing
176	Non-appropriated Funds
177	Accounting and Finance
178	Management Analysis
182	Postal and Courier Operations
190	Information
200	Intelligence
205	Security
206	Air Base Defense
207	Aerospace Systems Security
210	Historical Data and Properties
211	Personal Affairs
212	Libraries
213	Educational Services Program
214	Dependents' Education
215	Recreation
216	Oversea Areas
265	Chaplain
300	Data Automation
310	Contractor Data Management
320	Value Engineering
355	Disaster Preparedness
400	Logistics
401	Material Programming
600	Control of Management Systems
800	Acquisition Management
900	Awards, Ceremonies, and Honors

2. SOFTWARE ACQUISITION DOCUMENTS

The documents referenced in this guidebook include all those cited in the previous version of the RSS guidebook (ESD-TR-75-91) or one of the other SAM guidebooks listed in the Preface. In addition, certain new documents have been added because we deemed their titles or contents relevant to C3 software acquisition.

As one general guideline, the documents most important to acquisition of software for C3 systems are those referenced in one of the other guidebooks. Such reference is indicated by the guidebook codes in the documents' entries in Appendices A-C. The software-related documents most frequently developed during a major system's life cycle are spelled out in the Software Acquisition Management Guidebook: Life Cycle Events, ESD-TR-77-22, especially its Tables 1-4. That guidebook also discusses the computer program life cycle for software acquired as part of a major system. ESD-TR-76-159, An Air Force Guide to Software Documentation Requirements, should also be reviewed, especially for its synopses of relevant Data Item Descriptions (DIDs) and discussion of the DID modification process.

2.1 Document Sources

A major set of the documents related to acquisition of software for Air Force C3 systems are naturally issued by Headquarters, USAF and its subordinate commands. In addition to these Air Force publications, relevant documents are issued by or for the Department of Defense, other DoD Components (e.g., the Army, the Navy, the National Security Agency (NSA)), other government agencies, and the American National Standards Institute (ANSI).

2.1.1 Air Force Documents

The policy and procedures for the Air Force Publications System are established in AFR 5-1, Air Force Publications Management Program. This system includes standard publications issued by the Secretary of the Air Force; Chief of Staff, USAF, and by field commanders. Any standard Air Force publication may be issued and maintained by a commander down to the Group or Base level. Within the Air Force Systems Command, standard publications are normally issued at the Command level, and down to the Product Division level (e.g., ESD).

The types of Air Force documents of primary concern in this guidebook are:

- o Headquarters USAF publications, including the Air Force Armed Service Procurement Regulation (ASPR) Supplements, Air Force Manuals (AFMs), Air Force Pamphlets (AFPs), Air Force Regulations (AFRs), and Technical Orders (TOs).
- o Air Force Systems Command (AFSC) publications, including AFSC Design Handbooks (AFSC DHs), AFSC Manuals (AFSCMs), AFSC Pamphlets (AFSCPs), AFSC Regulations (AFSCRs), and AFSC Periodicals (AFSCRPs).

- o AFSC Electronic Systems Division (ESD) publications, including the ESD ASPR Supplements, ESD Manuals (ESDMs), ESD Pamphlets (ESDPs), ESD Regulations (ESDRs), and ESD Technical Reports (ESD-TRs).

In addition, there are a number of relevant regulations, specifications, standards, DIDs, and technical reports issued by the Air Force Logistics Command (AFLC), the AFSC Aeronautical Systems Division (AFSC/ASD), ESD's Rome Air Development Center (RADC), and the AFSC Space and Missile Systems Organization (AFSC/SAMSO), which may be applicable to ESD-managed software acquisition.

2.1.2 Other Documents

Other documents relevant to ESD C³ software acquisition include a large number of Department of Defense (DoD) publications, plus some Federal Information Processing Standards (FIPS), Office of Management and Budget (OMB) publications, and ANSI publications. Documents from other services such as Army, Navy and Joint Army/Navy/Air Force/DASA (JANAP) publications may also be relevant.

DoD Directives and DoD Instructions are implemented in the Air Force through the Air Force Standard Publication System (AFR 5-1). Joint publications with the Army, Navy and Defense Atomic Support Agency, (i.e., JANAP documents) are also considered part of the Air Force Publication System. Publications of the Defense Intelligence Agency (DIA) are implemented by AFR 5-3, Standard Intelligence Publications System, and require the same degree of compliance as standard Air Force publications. Publications of the Defense Logistics Agency (DLA), (formerly the Defense Supply Agency), are presented in AFR 5-9, Defense Supply Agency Publications.

2.2 Document Types

The documents that may be pertinent to software development and acquisition for ESD-managed systems are of many types. Table 6 shows the types of documents identified in this guidebook vs. the organizations that issue them. Table 6 omits sources and types of documents not illustrated in this guidebook, although such documents may exist.

The types usually most relevant to software acquisition for ESD-managed programs are explained below.

2.2.1 ASPRs and ASPR Supplements

All contracts issued by the DoD and its components (e.g., Army, Navy, Air Force) are expected to be consistent with the ASPRs, which reflect Federal law, Executive Orders, and DoD policy. DoD Components and their lower-echelon organizations through the Product Division level (e.g., ESD) may issue ASPR Supplements. These further detail or augment ASPR direction, but must not conflict with the ASPRs. An ASPR Supplement applies to the organization that issues it and to its lower-echelon organizations.

Procurement circulars (e.g., Defense Procurement Circulars) are transient publications used to announce ASPR and ASPR Supplement changes.

2.2.2 Data Item Descriptions (DIDs)

A DID is a standard that prescribes the form and content of data (i.e., documents) to be delivered under a contract. A special (i.e., "unique") DID may be prepared to prescribe a particular deliverable data item, or a standard DID (possibly modified) may define that data item. DIDs used on specific acquisition programs are reviewed for potential standardization, and acquisition program managers are encouraged to use standard DIDs wherever feasible. DIDs may be standardized at the Product Division or higher level. This guidebook lists only standard Air Force, NSA, and ESD DIDs.

2.2.3 Regulations, Directives and Instructions

Regulations are documents issued to define the control and organization of a government operation. They essentially announce policies, assign responsibilities, direct actions, and prescribe procedures. DoD Directives and DoD Instructions are in essence regulations issued by the DoD. However, at least within the Air Force, they are implemented by related regulations to which they may be attached.

2.2.4 Specifications and Specification Bulletins

Military and Federal specifications are documents which describe the essential technical requirements of materiel or services to be procured. They do not prescribe government operations. They also include procedures for determining whether requirements have been met. Air Force Specification Bulletins announce important changes in such specifications. Federal and military specifications, or tailored versions of them, are intended to be used in preference to new specifications, or are referenced in system-specific specifications, whenever available and deemed appropriate by the procuring agency.

2.2.5 Standards

Standards (including standard drawings) are a preferred way to establish engineering and technical limitations and applications for acquired materiel, processes, methods, designs, and engineering practices. They are referenced in system-specific specifications to define one or more features of an item in a standard way. Military standards are invoked at the discretion of the procuring agency, in accordance with AFR 73-1, Defense Standardization Program. Like specifications, standards do not prescribe government operations.

2.2.6 Manuals

Manuals serve the same purpose as regulations; they are often identical in appearance, volume, scope and applicability.

2.2.7 Handbooks

Handbooks (including Design Handbooks) define suggested practices. They supplement specifications and standards by bringing together procedural, technical design, and engineering information.

2.2.8 Pamphlets

Pamphlets are intended to provide useful guidance informally. They are usually written in an informal style and are not required to follow a prescribed format.

2.2.9 Technical Reports

Technical reports are issued by various agencies. Technical reports address a wide range of topics, including those covered by most other types of publication.

2.3 Directive vs. Non-Directive Documents

In general, ASPRs, DoD Directives, DoD Instructions, manuals, and regulations are intended to be directive on the government organizations to which they are issued. However, such directives normally do not apply to a specific acquisition program unless specifically identified in its Program Management Directive (PMD) or Program Management Plan (PMP). In contrast, exhibits, handbooks (including AFSC Design Handbooks), periodicals, pamphlets, publications (except for JCS Publications), and technical reports are in general not directive on government organizations.

None of the above is directive on contractors except to the extent referenced in their contracts. Specifications, standards (including standard drawings), and DIDs are specified in the contract(s) or Memoranda of Agreement (MOA) of an acquisition program. Bulletins and circulars may announce new versions of the above. Technical Orders (TOs) describe portions (typically equipment) of specific systems, as they have been built, for use by operations and maintenance personnel.

2.4 Supplements

At least within the Air Force, supplements to existing ASPRs, regulations, and manuals may be issued by lower-echelon organizations to interpret or augment higher-level direction. Such supplements apply only to the issuing organization and its components. Supplements may not contradict the documents they supplement. The statements in a supplement are usually keyed to the specific paragraphs of the basic document that they modify or augment. Consequently a supplement must generally be read concurrently with the basic document, since it is otherwise unintelligible.

DoD Directives and DoD Instructions attached to a standard Air Force document are not considered supplements. Instead, they are considered part of the standard document. Other DoD publications, such as manuals, handbooks and catalogs, publications of the Joint Chiefs of Staff, and Interservice

publications are indexed in AFR 0-4. Each such publication is considered directive unless its text or nature indicates otherwise.

Military and federal specifications, military standards, and DIDs may be supplemented by language included in the individual MOA or contracts (and contract attachments) to which they apply. However, formal supplements to these documents are not normally issued.

2.5 Indexes

Indexes of most standard types of documents are issued by the DoD, Air Force, other DoD Components, Major Commands and their components for the documents each publishes. Table 2 lists by source and type the kinds of documents listed in this guidebook. Table 2 also identifies, where known, the applicable index, a general document ID format, and an example of the document ID.

For each index mentioned in Table 2, Table 1 identifies the issue we referenced to determine the document's exact title, current status, and version date (unless we had more current information). Table 1 also states (if known) how often each index is revised, and the month of revision.

Table 1 should be used to determine whether a specific document's index is current. If not, the current index should be obtained and checked to see if a later version of the document has been published. If so, that later version should be obtained.

To be certain that one has the latest version of a document, one must check with the specific office responsible for its preparation (i.e., its OPR), since no index can reflect new versions issued since the index's latest publication date. The OPRs for most of the documents listed in this guidebook are identified in the appropriate indexes, or in the documents themselves.

3. DATA AUTOMATION AND SYSTEM ACQUISITION

The Air Force has established an Automatic Data Processing (ADP) Program which applies to all Air Force activities with responsibilities for (a) the selection, development, acquisition, management and use of ADP resources, and (b) the design, development, and maintenance of automated data systems. This program is established, and policies and responsibilities are identified, in AFR 300-1. The policy includes central management and control of the acquisition of all computer resources (e.g., software, computers). AFR 300-1 assigns this responsibility to the Director of Data Automation, HQ USAF. This responsibility includes selection, development, standardization and use of all computer equipment and software.

Other regulations and manuals in the AFR 300 series are used to control the ADP resources and data systems. The ADP data systems acquired under the AFR 300 series, together with procedures for using them, are described in individual volumes of the AFM 171 series. All resources of an ADP Program (equipment, performance monitors, software, contractual services, supplies, and automated data systems) are acquired, developed, and managed according to the concepts and policies of AFR 300-2.

One class of exceptions identified are computer resources developed or acquired as part of a DoD-designated major system. These computer resources are to be employed as dedicated elements, subsystems or components of major systems funded under Research, Development, Test, and Evaluation (RDT&E) or procurement appropriations. AFR 800-2 is the Program Management regulation for Air Force acquisition of major systems. The computer resource portion of such a major system is to be managed according to AFR 800-14.

Another class of exceptions are systems whose PMDs direct their management per AFR 800 series regulations. Nearly all ESD-managed systems belong to this class.

Under the AFR 800 series of regulations, major systems assigned to the Air Force, including any necessary software, are the responsibility of HQ USAF. An implementing command, usually the AFSC, is selected and is given maximum authority and responsibility to acquire the system. This responsibility is usually delegated to a Product Division (e.g., ESD). A Program Manager (PM) is appointed and given authority to act on behalf of the implementing command to conduct the acquisition program within approved performance, schedule, and funding parameters.

In general, then, two types of acquisition involving software have been distinguished, to which two basic series of regulations can apply: (a) ADP procurement, management and development, regulated by the AFR 300 series; and (b) acquisition of major systems, including embedded computer resources, regulated by the AFR 800 series. The two terms, "ADP" and "embedded computer resources", are used fairly consistently in recent regulations as distinguishing names.

Furthermore, the two series are not mutually exclusive. The Air Force ADP Program Single Manager established by AFR 300-1 is responsible for

providing ADP technical and managerial expertise to AFR 800 series acquisition programs through HQ USAF coordination. Also, for AFR 800 series programs, several specific regulations and manuals in the AFR 300 series can be employed "to the extent practical" (e.g., for data element, equipment, and computer program standardization). Figure 1, adapted from AFR 800-14, illustrates the major relationships between the two series.

Appendix A lists the current AFR 300 series and AFR 800 series documents, and Section 4 contains abstracts of some of them. The following sections discuss significant differences between the AFR 300 and AFR 800 series regulations, and some important similarities, as they affect software acquisition. Table 7 presents some of the distinguishing characteristics of AFR 300 and AFR 800 series documents.

3.1 System Requirements

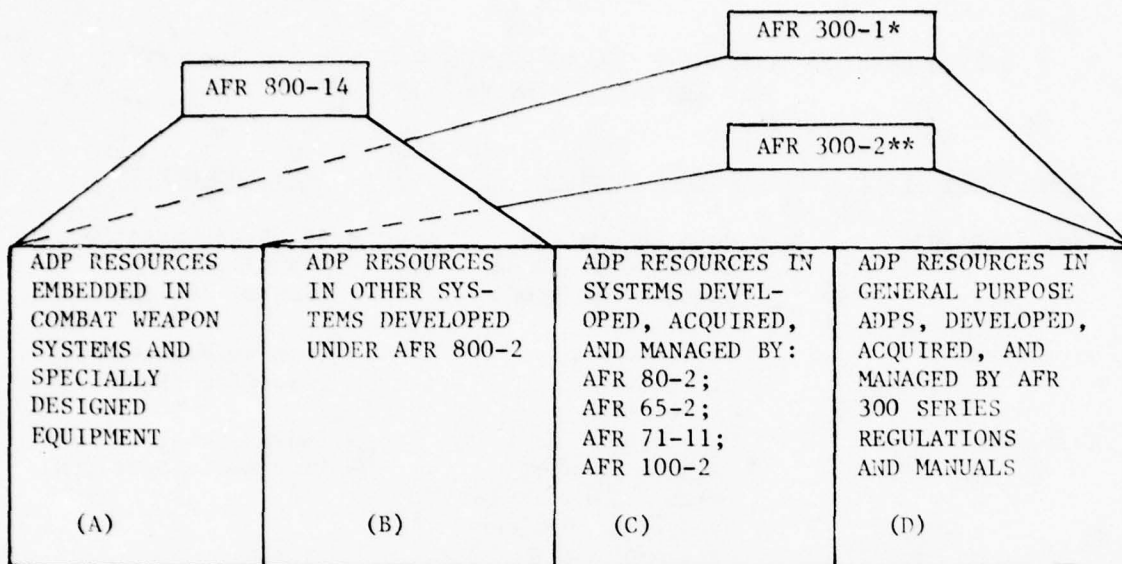
New or improved system requirements may be proposed by any Air Force organization or by higher authority. Such requirements are transmitted by a Major Command (MAJCOM) to HQ USAF in the form of a Required Operational Capability (ROC), as specified by AFR 57-1*, for new or improved operational capabilities which may include computer resources. Alternatively, the computer resource requirements may be expressed in a Data Automation Requirement (DAR), as described in AFM 300-12. In either case HQ USAF will review the requirement statement, and if the requirement is approved, will issue a Project Directive (PD) for Automated Data Processing System (ADPS) acquisitions or a Program Management Directive (PMD) for major system acquisition programs. The PD or PMD establishes the basis and authority for subsequent management of the project. This directive may specifically identify any regulations to be followed or excluded in the acquisition. For software it will identify the management policy and procedures to be used: AFR 300 series, AFR 800 series, a combination of the two series, or perhaps some ad hoc management policy.

3.2 Scope of Effort

The application of AFR 800 series or AFR 300 series regulations may best be distinguished by the scope of the project, as indicated by the time, expenditure, and extent of technical risk involved.

AFR 800 series procurements entail acquisition of entire systems. The implementing command is responsible for such a system at least from the time the requirement is initially approved until the system is available to the operating command. Software and computers may be rather minor portions of the total system in terms of resources expended. Thus, from a management point of view, the software portion of the system may be hidden, simply because other matters are more likely to occupy the PM's attention. AFR 800-14 is intended to highlight the computer equipment and software in such systems, and to insure that those resources are properly planned, developed, documented, employed, and supported.

* A forthcoming revision of AFR 57-1 will replace the ROC by a rather different Statement of Operational Need (SON).



CATEGORY A - These items are excluded from the DoD and Air Force ADP Programs. They are subject to the policies of AFRs 300-1 and 800-14.

CATEGORY B - The ADP resources integral to these systems are subject to policies of AFR 300-1, AFR 800-14, and AFR 300-2.

CATEGORY C - Management of the ADP resources in these systems is subject to AFR 300-1, AFR 300-2, and the other cited regulations. As these ADP resources are dedicated to the systems they support, primary management stems from the basic regulation governing the system.

CATEGORY D - These systems are developed, acquired, operated, and managed using the AFR 300 series regulations and manuals.

* Technical and managerial expertise is provided by ADP Program Single Manager organizations by means of review, consultation, and recommendation via HQ USAF coordination.

** Pertinent AFR 300-2 policy requirements are specified by the PMD.

Figure 1. Applicability of Air Force Regulations Pertaining to 800 and 300 Series Managed Programs

Table 7

DISTINGUISHING MANAGEMENT CHARACTERISTICS OF THE AFR 300 SERIES
AND AFR 800 SERIES REGULATIONS

<u>CHARACTERISTICS</u>	<u>AFR 300 SERIES</u>	<u>AFR 800 SERIES</u>
User Requirements	<ul style="list-style-type: none"> - Data Automation Requirement (DAR) - Economic Analysis 	<ul style="list-style-type: none"> - Required Operational Capability (ROC) - Mission Analysis
Directives	<ul style="list-style-type: none"> - Data Project Directive 	<ul style="list-style-type: none"> - Program Management Directive (PMD)
Responsibilities	<ul style="list-style-type: none"> - Development Activity - Program Manager (also called ADPS Manager or Project Manager) 	<ul style="list-style-type: none"> - Implementing Command - Program Manager (PM)
Scope	<ul style="list-style-type: none"> - Automated Data Processing System (ADPS) - Automated Data Systems 	<ul style="list-style-type: none"> - Any designated system
Planning	<ul style="list-style-type: none"> - Data Project Plan 	<ul style="list-style-type: none"> - Program Management Plan (PMP)
Milestones	<ul style="list-style-type: none"> - Concept Certification - Design Certification - Issuance of solicitation documents - Prototype Test Evaluation and Implementation Approval - Final Operational Review 	<ul style="list-style-type: none"> - Each Acquisition Life Cycle Phase: Conceptual, Validation, Full-Scale Development, Production and Deployment
Management Systems	<ul style="list-style-type: none"> - Milestone Report - Planning, Programming and Budgeting System 	<ul style="list-style-type: none"> - As specified in PMD or PMP
Reporting	<ul style="list-style-type: none"> - Command or Air Force Report at each milestone, at project slippage, and at the end of fiscal years - Specific cost, status and schedule information is required 	<ul style="list-style-type: none"> - Periodic review as directed or planned by AFSC, Air Force or Secretary of Defense (SECDEF) - SECDEF approval required to start a new phase

TABLE 7 (Concluded)

<u>CHARACTERISTICS</u>	<u>AFR 300 SERIES</u>	<u>AFR 800 SERIES</u>
Software Requirement	- Description of requirements, functions, services and capabilities to be provided by the proposed computer program	- System or Segment Specification - CPCI Development Specification
Software Design	- Description of the computer program capabilities, interfaces, capacities, limitations	- Computer Program Product Specification
Software Acceptance	- Procedure for acceptance must be specified	- Criteria for testing contained in specification
Software Documentation	- Provisions for documentation must be stated, explicit, and anticipate future needs	- All data items deemed necessary for the implementing, supporting, and using commands

AFR 300-1 addresses systems that are typically much smaller. It applies to the selection, development, documentation, management and use of ADP resources, and to the design, development and maintenance of automated data systems. In the limited context of an automatic data processing program, software generally consumes a proportionally larger share of system acquisition resources expended, and therefore generally receives more management attention. The greater attention, and resultant software visibility, are indicated by the larger number of AFR 300 series regulations than AFR 800 series regulations that directly impact software. This limited scope of systems normally acquired under AFR 300 series regulations also means that the Air Force command stating the requirements, the implementing command, and the using command are often the same.

AFR 300 series regulations also provide for development of data systems common to more than one installation, and acquisition of software with potential for substantial use elsewhere in the government.

3.3 Management Responsibilities

AFR 300-2 and AFR 800-2, respectively, list the responsibilities for management of AFR 300 series and AFR 800 series programs. To highlight the differences this section concentrates on the responsibilities of the Program Manager (also called ADPS Manager and Project Manager in AFR 300 series documents).

3.3.1 AFR 800 Series PM Responsibilities

An AFR 800 series program PM organizes, plans, directs and controls the entire program. He prepares the Program Management Plan (PMP), which is directive on all participating organizations, and which establishes the scope, cost thresholds, and schedules for all program efforts. Proposed changes in the plan, level of effort, system requirements, expected costs, or schedules are assessed by the PM for HQ USAF. The PM coordinates the activities of the participating organizations and reports to higher headquarters the performance and progress of the program, including recommended changes. For selected programs, the PM may directly communicate problems and recommended solutions to the commander of the implementing command, the Chief of Staff, USAF, and the Secretary of the Air Force.

3.3.2 AFR 300 Series PM Responsibilities

An AFR 300 series program PM accomplishes system development or modification in accordance with the Data Project Directive and Data Project Plan. He establishes configuration management and provides operational support, such as system maintenance and review of proposed system changes. This responsibility continues after development, through operational use of the system.

3.4 Milestones

3.4.1 AFR 800 Series Program Milestones

The principal milestones of an AFR 800 series program are the transition points from one phase to another within the major system acquisition life cycle. In parallel with these transitions, the system's specifications are successively refined and formalized to establish the functional, allocated and product baselines. The establishment of each baseline is a major milestone of the acquisition. The Life Cycle Events Guidebook and the Configuration Management Guidebook discuss these events in some detail.

Successful completion of design reviews, tests, and audits can and should be established as additional milestones. MIL-STD-1521A (USAF) is the single document most used to specify the conduct of technical design reviews and audits for software developed under contract. This standard is normally applied to a system as a whole and to its deliverable parts, called Configuration Items (CIs). These may comprise both equipment CIs and Computer Program Configuration Items (CPCIs). MIL-STD-1521A (USAF) provides for System Requirement Reviews (SRRs) and System Design Reviews (SDRs), and for Preliminary Design Reviews (PDRs), Critical Design Reviews (CDRs), Functional Configuration Audits (FCAs), Physical Configuration Audits (PCAs), and Formal Qualification Reviews (FQRs) for the system's CIs. For milestone definition, MIL-STD-1521A (USAF) is used together with MIL-STD-483 (USAF) (Configuration Management Practices) and MIL-STD-490 (Specification Practices). Among other things these standards, and AFR 800-14, Volume II, define Preliminary Qualification Tests (PQTs) and Formal Qualification Tests (FQTs) for each CI. These tests, and system tests, normally constitute important milestones.

The contracts or Memoranda of Agreement between the government and developers may establish additional milestones. Regardless of the specific milestones, a PM continually assesses progress, performance and costs, and reports appropriate problems and recommended changes to higher headquarters.

3.4.2 AFR 300 Series Program Milestones

AFR 300 series regulations require milestones termed Concept Certification, Design Certification and Final Operational Review. They also suggest other milestones, such as issuance of solicitation documents and approval of prototype test evaluation. Each milestone indicates completion of a program phase that must be specifically approved by the ADPS Manager. Intermediate milestones are identified for the end of each fiscal year.

A milestone report must be prepared for each milestone. AFM 300-12 requires a specific format for reporting current and estimated future costs, and emphasizes that the cost elements and schedules for data submitted in the proposal, milestone reports, economic analysis, and ADP management information system must be reconciled to one another.

Major commands are responsible for monitoring data system development under their control and for initiating any necessary management

action. Management reviews are required whenever a milestone slips 120 days or cost varies 25 percent from that estimated at the prior milestone. Depending upon the source of the original requirement and the amount of effort involved, the Major Command or HQ USAF will conduct the review, and for very large projects the Secretary of the Air Force/Financial Management and Assistant Secretary of Defense/Comptroller will be invited.

3.5 Software Requirements and Configuration Management

3.5.1 AFR 800 Series Requirements

AFR 800 series systems must record the requirements for the entire system in a system specification prepared in accordance with MIL-STD-490 and MIL-STD-483 (USAF). The system specification requirements may be subdivided into system segment specifications, and must be further subdivided into CI specifications. Identification of any segments, and of the CIs in a system, must be included in the system specification. There are no fixed rules governing CI definition, but the Life Cycle Events Guidebook and the Configuration Management Guidebook suggest guidelines.

The PM must employ configuration management (defined in AFR 65-3) that will identify and document the important functional and physical characteristics of all configuration items. The practices defined in MIL-STD-483 (USAF) are a means to identify CIs, and to establish baselines from which future changes can be proposed, assessed and recorded. The data and actions required to implement such a system also establish a sequence of events for product development that makes product control possible and is believed to improve product quality. Although not explicitly required, the procedures used are usually those of MIL-STD-483 (USAF) and AFSCM 375-7. Software requirements are allocated among a system's CPCIs as defined in MIL-STD-490 and MIL-STD-483 (USAF). Per these standards, specifications are prepared for each CPCI: Computer Program Development Specifications describing its functional requirements, and Computer Program Product Specifications describing the resultant computer programs as built.

3.5.2 AFR 300 Series Requirements

The DAR includes objectives, alternatives and an economic analysis comparing development and operating costs with benefits to be accrued. Preparation of the DAR is always prerequisite to the issuance of a Data Project Directive, which is the authority to proceed with the project. An economic analysis, relating elements of effort to cost, is completed prior to issuance of the authority to proceed. This is very similar in principle to the economic analysis conducted for AFR 800 series programs.

AFR 300 series programs also require configuration management, but only as a vehicle to assess and implement future changes. There is no stated requirement to establish baselines and maintain configuration identification as when MIL-STD-483 (USAF) is used.

3.6 Software Standards

3.6.1 Programming Languages

Both AFR 800-14 and AFR 300-10 require use of an appropriate high order programming language (HOL), such as COBOL or JOVIAL, unless specifically exempted in a project directive or project plan.

AFR 300-10 applies to all commands and activities that use programming languages or acquire language compilers in support of ADP Equipment (ADPE), except what is excluded from the provisions of AFR 300-1. AFR 300-10 also identifies situations in which assembly language is permitted. The standard HOLs are:

- (a) JOVIAL (J3) and JOVIAL (J73/I), as specified in MIL-STD-1588 and MIL-STD-1589, respectively, which are the standards for command and control applications.
- (b) FORTRAN, as specified in ANSI X3.9 (FORTRAN) and ANSI X3.10 (Basic FORTRAN), which are the standards for advanced mathematical applications.
- (c) COBOL, as specified in ANSI X3.23 (except the Report Writer module), which is the standard for all other automated data processing applications. Three subsets of the full COBOL language are identified.

3.6.2 Data Elements

AFM 300-4 requires the use of standard data elements and AFR 800-14 requires the use (to the maximum extent possible) of ADP standards, presumably including AFM 300-4. Other than the required use of specific data values, there is no requirement for standardized record format or data base structure.

3.6.3 Use of Existing Software

There is no regulation requiring use of existing software or design techniques; e.g., from software libraries or other sources. Potential use of existing software is presently limited by the personal knowledge of a Project Manager and his staff. However, AFR 800-14 has directed AFSC and AFLC to prepare, and AFLC to maintain an inventory of computer programs.

3.6.4 Software Engineering Practices

SAMSO Exhibit 73-3 describes engineering practices for software design and development. Its use is required by all SAMSO agencies. In essence, this document is a statement of "good" programming and software management practices. It is primarily aimed at large software developments with stringent requirements for software reliability, maintainability, or extensibility. There are no quantitative measures of these qualities. The Rome Air Development Center Structured Programming Series (RADC-TR-74-300)

addresses computer program logic, structure, modularization, and documentation. However, neither of these sources has been mandated for use on ESD-managed programs.

3.7 Documentation Requirements

3.7.1 AFR 800 Series Documentation Requirements

AFR 800 series regulations require identification of computer programs as configuration items. To minimize the number of data items on Contract Data Requirements Lists (CDRLs), it is usual for a PM to use the DIDs required for AFR 800 series configuration management as the basis for software documentation and to add others as necessary. As a result, the MIL-STD-483 (USAF) and MIL-STD-490 system, development, and product specifications usually describe the software; test plans/test procedures and test reports describe the quality of the software; and users' manuals describe how to use the software.

3.7.2 AFR 300 Series Documentation Requirements

AFR 300 series programs are much less likely to use all of the configuration control practices of MIL-STD-483 (USAF) and the documentation that these practices entail. Data automation software developed for a specific Air Force wide usage, such as the Base Level Management Standardization Program, the Standard Base Supply System, and the Military Personnel Automatic Data Processing System, often has system-specific documentation standards, especially for users' manuals.

3.7.3 Important Exceptions

Some systems use alternate documentation standards such as those described in DoD 4120.17-M, SSD Exhibit 61-47B, or Naval Weapons Specification WS 8506. These alternate documentation standards generally emphasize, more than MIL-STD-483 (USAF) and MIL-STD-490, a separate and detailed description of data common to two or more computer programs, and of interfaces among computer programs.

3.8 Software Testing

3.8.1 Testing Software in AFR 800 Series Systems

Systems managed under AFR 800 series regulations that use the configuration management procedures of MIL-STD-483 (USAF) include in each system, segment, and CPCI specification, a section on the testing of each requirement contained in that specification. Frequently, these systems' Statements of Work (SOWs) require preparation of related test plans, test procedures, and test reports.

The Air Force policies and requirements for test and evaluation of all systems acquired under AFR 800-2 are contained in AFR 80-14. This regulation emphasizes the test and evaluation of systems for suitability and effectiveness; it includes testing computer programs to the extent that they

are part of a system. The test and evaluation of these computer programs, to determine the degree of compliance with development specifications, is required. AFR 800-14 also addresses software testing.

3.8.2 Other Testing Guidance

AFSC DH 4-2, Chapter 5, describes guidelines for test and evaluation of computer programs. It suggests iterative testing of subprograms, functional areas, and an entire subsystem. The handbook describes means of testing against specifications, and gives almost equal emphasis to testing for program "validity and excellence". This distinction is very similar to the difference between testing by looking for correct results and by looking for errors. Specification test sections prepared according to MIL-STD-490 or MIL-STD-483 (USAF) describe only what must be tested and the methods to be used.

There are no known general rules for evaluating the results of computer program testing (e.g., the implications of finding different types of errors), or for deciding when enough successful testing has been planned or completed.

3.9 Logistics and Other Matters

3.9.1 AFR 800 Series Provisions

A program managed per AFR 800 series regulations must include an Integrated Logistics Support (ILS) program, and must emphasize system engineering and life-cycle costing throughout all acquisition life cycle phases. It is presumed in AFR 800 series programs that the system will be turned over for deployment to an operating command and for maintenance and modification to a supporting command. (These commands may be the same.) AFR 800-14, Vol. II, Chapters 9 and 10, outline AFR 800 series policy on these matters, and identify related planning documents. Especially important among these are the Computer Resources Integrated Support Plan (CRISP) and the Operational/Support Configuration Management Procedures (O/S CMP).

3.9.2 AFR 300 Series Provisions

The AFR 800 series considerations are not ignored in an AFR 300 series program, but the emphasis is different. The generally smaller program, the likely lack of transition to a separate Air Force command, and the continuing position of a single ADPS Manager in an operating and supporting role, all simplify the process of estimating future volume of effort and cost, and ease, during acquisition, the ability to anticipate future needs, especially data items.

4. ABSTRACTS OF SELECTED ACTIVE DOCUMENTS

Following are abstracts of several documents listed in Appendix A. These abstracts are presented in the same order that the documents are cited there.

4.1 OHB Circular A-109, Major System Acquisitions

This circular establishes policies to be followed by Executive branch agencies in the acquisition of major systems. Major system acquisition programs are those that:

- a. are directed at and critical to fulfilling an agency mission,
- b. entail the allocation of relatively large resources, and
- c. warrant special management attention.

Definition of additional criteria (including establishment of relative dollar thresholds) for the determination of major systems is at the discretion of the Executive agency head. An Executive agency, under the purview of this circular, is an Executive department or an independent establishment within the meaning of Sections 101 and 104(1), respectively, of United States Code, Title 5.

This circular covers and applies to management activities related to the acquisition of major systems. These activities include:

- a. analysis of agency missions;
- b. determination of mission needs;
- c. setting of program objectives;
- d. determination of system requirements;
- e. system program planning;
- f. budgeting and funding;
- g. research;
- h. engineering;
- i. development;
- j. testing and evaluation;
- k. contracting;
- l. production;
- m. program and management control; and

- n. introduction of the system into use or otherwise successful achievement of program objectives.

4.2 DoDD 4105.55, Selection and Acquisition of Automatic Data Processing Resources

This directive applies to activities within the Office of The Secretary of Defense, JCS, Military Departments and Defense Agencies, but not to those of contractors. It implements guidance from the Office of Management and Budget (OMB) and from the General Services Administration (GSA). The policies and guidance defined by this directive cover all areas of ADP resource acquisition (original, upgrade, and replacement), but at a very high level. It stresses the need for competitive selection, planning prior to acquisition, and review of all alternatives before making a selection.

4.3 DoDD 5000.1, Major System Acquisitions

This directive establishes policy for the management of programs designated as major system acquisitions. Major system acquisition programs are so designated by the Secretary of Defense on the basis of: (a) recommendations of the DoD component head and OSD officials; and (b) cost estimates that exceed the stated thresholds.

The directive also provides a guide for management of less-than-major system acquisitions programs. Basically, the policy outlines the system acquisition process including responsibilities of the Secretary of Defense, DoD components, the OSD staff, and the Defense Acquisition Executive. Key decision points and other major aspects of acquisitions program management are defined.

4.4 DoDD 5000.2, Major System Acquisition Process

This directive establishes policies and procedures for DoD activities in support of the Secretary of Defense's decision-making process on major system acquisitions (i.e., those defined in DoDD 5000.1). It directs the establishment of advisory councils (a DSARC and a (S)SARC for each military service) to review major systems, and it makes recommendations to support Secretary of Defense decision-making. The directive prescribes major system program documentation which includes the Mission Element Need Statement (MENS) and the Decision Coordinating Paper (DCP). It further defines the responsibilities of DoD component heads in the identification and analysis of mission needs, and outlines scheduled program reviews.

4.5 DoDD 5000.3, Test and Evaluation

This directive establishes policy for the conduct of test and evaluation of major systems (i.e., those defined by DoDD 5000.1), and its principles apply to the acquisition of other defense systems. It directs that test and evaluation shall be scheduled throughout the acquisition, in an effort to identify and reduce technical risk. Development Test and Evaluation (DT&E) and Operational Test and Evaluation (OT&E) are required for all systems, and special provisions are made for one-of-a-kind systems.

4.6 DoDD 5000.28, Design to Cost

This directive establishes policy and guidance for the application of design-to-cost principles to the acquisition of major systems, subsystems and components. The objectives of the design-to-cost concept are twofold:

- a. to establish cost as a parameter equal in importance to technical requirements throughout design, development, production and operation phases;
- b. to establish cost elements as management goals for achieving the best balance between life cycle cost, acceptable performance and schedule.

In addition to policy, the directive also defines responsibilities for the DoD Components having acquisition authority for defense systems, subsystems, and components.

4.7 DoDD 5000.29, Management of Computer Resources in Major Defense Systems

This directive establishes policy for the management and control of computer resources that are part of major system acquisitions as defined in DoDD 5000.1. These principles may be applied to other systems, with the exception of general purpose, commercially available automatic data processing systems. Computer resources are defined as subsystems of major importance which must be managed with particular emphasis on computer software and its integration with hardware. Policy is defined for the following major areas:

- o Requirements validation and risk analysis.
- o Configuration management of computer resources.
- o Computer resources life cycle planning.
- o Support software deliverables.
- o Milestone definition and attainment criteria.
- o Software language standardization and control.

Responsibilities for establishing a DoD Management Steering Committee for Embedded Computer Resources and DoD component responsibilities are also defined.

4.8 DoDD 5010.19, Configuration Management

This directive establishes policy for configuration management for all Military Departments, DoD Components at all echelons, and all Defense-Industry interfaces. Configuration management must be applied to all configuration items procured, or obtained by agreement between in-house activities. The directive describes responsibilities for initiation, planning, documentation and audit of configuration management, and describes the processes of .

functional and allocated configuration identification, control and status accounting.

4.9 DoDI 4105.65, Acquisition of Automatic Data Processing Computer Program and Related Services

This instruction establishes procedures to be used by DoD Components in defining requirements and developing purchase requests for the selection and acquisition of computer programs and related services. The purpose of these procedures is to assure more reliable and widely useable computer programs of uniform quality at controlled costs. The provisions of this instruction apply to the selection and acquisition of the following computer programs and services:

- a. any collection of computer programs, studies or methods, or techniques primarily for subsequent use by an element of the Department of Defense;
- b. products related primarily to the design and development of such computer programs; or
- c. documentation supporting, describing or extending the use of such computer programs.

4.10 DoDI 5000.31, Interim List of DoD Approved High Order Programming Languages

This instruction specifies High Order Programming Languages (HOLs) approved for use in conjunction with embedded computer resources as defined in DoDD 5000.29. The instruction does not apply to either commercially available software (as defined under DoDD 5100.40) or any application/user-oriented languages (e.g., user requirements languages) which are not within the programming language category. This instruction requires that DoD-approved HOLs will be used throughout a program unless it is demonstrated that none of the approved languages is cost effective or technically practical over the system's acquisition life cycle. It requires that each DoD Component designate one office authorized to approve requests for such exemptions. The DoD-approved HOLs and their defining specification documents and controlling agencies are also listed.

4.11 DoDI 5010.12, Management of Technical Data

This instruction implements a program of Technical Data Management for technical data developed by, or contractually acquired by, DoD or any DoD Component. The instruction identifies planning and continuous monitoring actions, based on current need, for all technical data. The instruction also establishes procurement data packages, data item descriptions, and the contract data requirements list. Attachments give useful guidance on the need and usage of data items, preparation of data requirements (data call), and information on technical data standardization.

4.12 DoDI 5010.21, Configuration Management Implementation Guidance

This instruction provides guidance for DoD Components in the implementation of Department of Defense policies on configuration management. Configuration management applies to all systems, equipment and other designated material items. The process should be tailored to the particular configuration item (CI) whether it is developed at government expense or privately developed and offered for government use.

The instruction addresses and defines guidelines related to the following concepts of configuration management:

- a. configuration identification;
- b. configuration control;
- c. configuration status accounting;
- d. configuration audits;
- e. procurement aspects;
- f. logistic support aspects; and
- g. implementation.

4.13 DoDI 7041.3, Economic Analysis and Program Evaluation for Resource Management

This instruction establishes policy and procedures for consistent application of economic analysis in order to:

- a. identify systematically the benefits and costs so that useful comparisons of alternative methods for accomplishing a task or mission can be made;
- b. highlight the key variables and the assumptions on which investment decisions are based and allow evaluation of these assumptions;
- c. evaluate alternative methods of financing investments; and
- d. compare the relative merits of various alternatives as an aid in selecting the best one.

Also included in this publication are three enclosures which contain:

- a. references;
- b. definitions;
- c. instructions and forms for preparing summaries of project costs and project benefits.

Enclosure 3 is a discussion of discounting techniques.

4.14 DoD 4120.17-II, DoD Automated Data System Documentation Standards Manual

This publication provides a general discussion of automated data system (ADS) documentation, its purposes, authorship requirements, life cycle applicability, and finally the needs of its audience. An attempt is made to correlate project complexity with documentation needs. The documentation types outlined and described in this publication are as follows:

- a. functional description (FD)
- b. data requirements document (RD)
- c. system/subsystem specification (SS)
- d. program specification (PS)
- e. data base specification (DS)
- f. users' manual (UM)
- g. computer operation manual (OM)
- h. program maintenance manual (PM)
- i. test and implementation plan (TP)
- j. test analysis report (TR)

These are intended to be the complete set of ADS documentation which could be added to required standard system planning documentation.

4.15 MIL-H-46855A, Human Engineering Requirements for Military Systems, Equipment and Facilities

This specification defines requirements for applying principles and criteria (MIL-STD-1472B) of human engineering to the development and acquisition of systems. The specification requires a plan and tasks of analysis, design, development, and test and evaluation.

4.16 MIL-Q-9858A, Quality Program Requirements

This specification applies to all supplies or services when referenced in a configuration item specification or contract. It requires a contractor to plan, establish and document a quality program for procedures, processes and products, including purchased data, and for the contractor to make objective evidence of quality conformance available to the Government Representative.

4.17 MIL-S-52779, Software Quality Assurance Program Requirements

This specification establishes the requirements for a definitive, visible, contractor software quality assurance (SQA) program and its associated planning documents. It states that this documentation shall include methods to aid in the identification of software development work packages, to track work progress, to assure configuration management practices are being maintained, to assess the success of software testing efforts, to detect and correct software deficiencies, and to establish software library controls. In addition, it requires the SQA program to address design evaluation, documentation reviews, technical review and audit schedules, and SQA tools and techniques.

4.18 MIL-S-83490, Specifications, Types and Forms

This identifies types of permitted specifications. With reservations for technical society, industry association, and contractor standards and normal practices, all specifications must conform to MIL-STD-490 in format and content. To a large extent, MIL-STD-490 forms a part of this specification by reference. MIL-S-83490 includes provisions for quality assurance of specifications (not of the item described by the specification).

4.19 MIL-T-38804, Time Compliance Technical Orders (TCTOs), Preparation Of

This specification identifies the requirements for preparing TCTOs, including format. TCTOs are used to impose or direct usage restrictions, retrofit changes, or special one-time inspection or replacement requirements on components of systems. TCTOs are a means of changing and ordering the retesting of computer programs.

4.20 MIL-STD-430, Configuration Control-Engineering Changes, Deviations and Waivers

This standard establishes configuration control requirements for the engineering or operational systems development, production and operational life cycle periods of configuration items. Included in this is the provision of requirements for preparation of Engineering Change Proposals (ECPs), Notices of Revision (NORs), facility construction contracts, deviations, and waivers. The standard is intended for use by prime contractors and government activities for:

- a. proposing engineering changes to configuration items under DoD contract,
- b. requesting deviations pertaining to such items, and
- c. requesting waivers.

This standard is also intended to control privately developed items used in configuration items, and may be applied to engineering changes during advanced development, provided such control is limited to functional characteristics and the minimum necessary design constraints.

4.21 MIL-STD-482A, Configuration Status Accounting Data Elements and Related Features

This standard establishes data items and aggregates to be used for configuration status accounting. Provisions are made for the addition of new programs or contractor data items. The standard includes item names, legal coded values, and an explanation of the item meaning.

4.22 MIL-STD-483 (USAF), Configuration Management Practices for Systems, Equipment, Munitions, and Computer Programs

This standard establishes uniform configuration management practices, and requirements for system, development (Part I) and product (Part II) specifications, that can be tailored to all USAF systems and configuration items, including computer programs. It supplements and adds requirements not contained in MIL-STD-480, MIL-STD-481A, MIL-STD-482A and MIL-STD-490. The standard describes the general requirements of configuration management and outlines 15 types of document pertinent to identifying, establishing and controlling system and configuration item baselines.

4.23 MIL-STD-490, Specification Practices

This describes the purposes, formats, and technical content of various types of specifications. The applicable set of specifications relating to the development of computer programs are the type A (system specification), type B5 (computer program development specification), and type C5 (computer program product specification). This material is extensively altered by MIL-STD-483 (USAF).

4.24 MIL-STD-499A (USAF), Engineering Management

This standard contains criteria and guidance for planning, conduct and management of system engineering effort. It emphasizes the tailoring of engineering tasks to each acquisition program, and stresses performing all engineering tasks as a single integrated engineering effort. An appendix includes task statements which can be tailored to a particular program and become specific contractual requirements.

4.25 MIL-STD-881A, Work Breakdown Structures for Defense Materiel Items

This standard prescribes a framework for: planning and assigning technical responsibilities and tasks; providing uniform control over and reporting of progress and status of contractor efforts; and maintaining uniform definitions to improve interpretation and reconciliation of reports. The standard describes Work Breakdown Structure (WBS) preparation and use, and WBS levels that apply to summaries and to individual contracts. The highest three levels of the WBS, i.e., the summary WBS, are specified for seven different categories of systems, including electronic systems which encompass ADP and computer programs. Use of MIL-STD-881A is required by both contractors and DoD components.

4.26 MIL-STD-1472B, Human Engineering Design Criteria for Military Systems, Equipments and Facilities

This standard specifies human engineering criteria for human-equipment interfaces. All of the criteria refer to physical limits. There are no explicit references to qualities of computer programs and their interface with humans.

4.27 MIL-STD-1521A (USAF), Technical Reviews and Audits for Systems, Equipment and Computer Programs

This standard prescribes the detailed requirements for the conduct of the following system milestone events:

- a. system requirements review (SRR)
- b. system design review (SDR)
- c. preliminary design review (PDR)
- d. critical design review (CDR)
- e. functional configuration audit (FCA)
- f. physical configuration audit (PCA)
- g. formal qualification review (FQR)

These reviews and audits are conducted only when specified in the contract. The standard identifies contractor and government responsibilities in the conduct of each type of review or audit, and outlines the minimum information to be presented. The reviews and audits may be used individually or as a set, and may be applied to an entire system, or to individual equipment or computer program CIs, as appropriate.

4.28 MIL-STD-1588, JOVIAL (J3)

This is the standard specification for compilers of JOVIAL (Jules Own Version of the International Algebraic Language)(J3). JOVIAL is a general purpose procedure-oriented programming language similar to FORTRAN (Formula Translation) and COBOL (Common Business Oriented Language). It is largely machine independent, thus providing a common standard for communications between users of many different computers. As a procedure oriented language, it represents a compromise between the general applicability provided by machine-oriented languages and the specific applicability of problem-oriented languages.

4.29 MIL-STD-1589, JOVIAL (J73/1)

This standard describes the Level I subset of the J73 JOVIAL language. J73 is a large, inclusive language with three subsets. Level I is the most restrictive. It is intended to be used in the development of avionics

systems, operating systems, and communications systems. Levels II and III are progressively larger subsets.

The Level I subset is upward compatible with the full language. Compatibility exceptions are noted in this standard.

4.30 AFM 300-6, Automatic Data Processing (ADP) Resource Management

This manual covers all aspects of buying, operating, and disposing of ADPE in considerable detail. A revision of AFM 171-9, it treats general aspects; budgeting for data system automation programs (DSAPs); installation management, evaluation and assistance; contractual matters; ADPE installation, operations, and maintenance; ADP sharing; and supplies, inventory and accountability, reutilization, and disposition.

4.31 AFM 300-12, Procedures for Managing Automatic Data Processing Systems

This manual supplements AFM 300-6. It prescribes additional procedures for managing ADPSs. It provides procedural guidance to implement ADPS management policy established by AFR 300-2. The procedures comprise a comprehensive method for managing an ADPS and ADPS elements throughout the ADPS life cycle. It is Air Force policy to manage all ADP projects using the principles of project management in AFR 300-2 and in this manual. The scope of each project and the value of the resources committed indicate the level of documentation, reports, review, and certification needed. Chapter 5 discusses acquisition of software and related services, such as documentation, maintenance and training.

4.32 AFR 8-2, Air Force Technical Order (TO) System

This regulation establishes and explains the Air Force TO System. Eight types of TOs, including computer cards and tape, are described. Responsibilities are defined for HQ USAF, AFSC, AFLC, Air Training Command (ATC), other major commands and separate operating agencies. TOs are the source of procedures for operating and maintaining virtually all Air Force systems and equipment.

4.33 AFR 57-1, Required Operational Capabilities (ROCs)

This regulation establishes procedures, assigns responsibilities, and outlines documentation by which needs for new or improved operational capabilities are identified and advocated. This process includes recognition and statement of the needs, and directive documentation. Instructions are given for preparing ROCs, the statements of required operational capabilities which initiate the process, and PMDs, which start the acquisition of the capabilities in response to a ROC. Combat-required operational capabilities are treated as a special case.

4.34 AFR 57-4, Retrofit Configuration Changes

This regulation governs initiating system changes after the Production phase of the major system acquisition life cycle begins. It assigns

responsibilities and explains how to get approval for system changes during the Production and Deployment phases. Rules for selecting the right type of change request are presented in tabular form.

4.35 AFR 65-3, Configuration Management

This regulation presents general policies and guidance for configuration management by the Air Force. Configuration management includes identifying, controlling, accounting for, and auditing the functional and physical characteristics of systems under procurement. Considerable attention is paid to the change process. An overview of the procurement process shows the Conceptual, Validation, Full-scale Development, Production, and Deployment phases, marked by the functional, allocated, and product baselines.

4.36 AFR 70-15, Source Selection Policy and Procedures

This regulation establishes policy, assigns authority and responsibilities, and prescribes implementing procedures for formally evaluating competitive proposals and selecting sources for development, production, modification, and service of major system programs or projects competitively procured by the Department of the Air Force. It primarily applies to major systems and other systems whose costs exceed cost thresholds defined in AFR 70-15. It may also be used as a guide to evaluate competitive proposals and to select sources below the prescribed dollar thresholds.

This regulation describes the source selection process from conceptual and validation phase activities to notification and debriefing requirements. It also elaborates on the procedures for developing evaluation criteria, breaks down specific criteria, and outlines the evaluation procedure. It explains the requirement for a risk analysis and discusses the comparative analysis of Source Selection Evaluation Board (SSEB) technical data, including an explanation of the weighting system. Finally, it provides guidance for the preparation of the Source Selection Advisory Council (SSAC) report which presents the SSEB's overall evaluation results.

4.37 AFR 73-1, Defense Standardization Program (DSP)

This regulation describes Air Force activities, responsibilities, channels of communication, and reporting for participation in the Defense Standardization Program. Where industry standards are preferable, they may be used. Standards for new designs will be established for future use. Variety of items will be minimized. The Departmental Standardization Office will be located at HQ USAF, with supporting Command Standardization Offices located within AFLC and AFSC.

4.38 AFR 80-14, Test and Evaluation

This regulation presents Air Force policies for test and evaluation activity. All testing, from basic research to system deployment, is covered, with special emphasis on Operational Test and Evaluation. All Air Force organizations and activities are affected, and the test cycle is described in an attachment. Responsibilities are defined for HQ USAF, the implementing

command, AFLC, operating commands, the Air Force Test and Evaluation Center (AFTEC), and ATC.

4.39 AFR 80-40, The Scientific and Technical Information Program

This regulation explains the DoD Scientific and Technical (S&T) Information Program. It requires Air Force commanders involved with S&T information to implement the program, and explains their responsibilities, particularly those of the S&T information officer. The broad purpose is to expedite and facilitate the transfer of S&T information throughout the Air Force as well as between the Air Force and the scientific community.

4.40 AFR 178-7, Management and Control of Information Requirements

This regulation explains the objectives, establishes the authority, and assigns responsibilities for accomplishing information requirements management in the U.S. Air Force. These regulations implement Joint Army and Air Force Adjustment Regulation 1-25-1, portions of the Federal Property Management Regulations (subpart 101-11.207), and Department of Defense Directive 5000.19. This regulation applies to all Air Force organizations.

In addition to defining the policy and criteria to be followed in performing objective reviews of existing revised and new information requirements, this regulation prescribes the general operating procedures for Air Force reporting requirements.

4.41 AFR 300-1, Automatic Data Processing Program Management

This regulation prescribes policies and responsibilities for the selection, development, acquisition, management, and use of automatic data processing systems (ADPS), and the design and development of automated data systems (ADS), except for ADPE excluded by DoDD 5100.40. Management of ADPS/ADS, other than those used in weapon systems, will be decided on a project-by-project basis by HQ USAF following review of the requirements document. HQ USAF decisions will be reflected in the applicable PMD. Documentation supporting requests for exception or waiver will be forwarded to HQ USAF for necessary action. This regulation stresses:

- a. use of existing facilities; and
- b. use of AF in-house capabilities.

4.42 AFR 300-2, Management of Automatic Data Processing Systems

This regulation prescribes policies and responsibilities for managing ADP systems of the ADP Program. It applies to all Air Force activities with responsibilities for planning, authorizing, designing, developing, selecting, acquiring, using, maintaining, or managing them under AFR 300-1. This regulation provides a framework for ADPS management which permits early identification and analysis of a requirement or concept and preliminary approval before extensive commitment of ADP resources.

4.43 AFR 300-10, Data Automation, Computer Programming Languages

This regulation prescribes policy, identifies procurement and testing requirements, and assigns authority and responsibilities for Air Force activities using computer programming languages, or acquiring computer programming language compilers. It applies to all requests for and use of computer programming languages and associated compilers in support of Air Force systems, whether developed in-house or under contract. It also identifies existing conversion aids, defines waiver procedures, and lists distributors of computer standards documents. Finally, it establishes Air Force Designated Control Agents for each high order programming language and assigns and defines responsibilities to the following: the HQ USAF; Major Commands and separate operating agencies; the Air Force Systems Command; and Air Force Designated Control Agents.

4.44 AFR 310-1, Management of Contractor Data

This regulation defines procedures for managing data (i.e., all documentation and other deliverable information) acquired under contract. It implements DoDD 5010.12. Responsibilities are defined for HQ USAF, major commands, AFSC, and AFLC. Detailed guidance on the preparation, quality evaluation, and management of data standards is provided.

4.45 AFR 800-2, Program Management

This regulation establishes policy, responsibilities and reporting requirements for major systems and for other Air Force acquisition programs that are directed to be managed by this regulation. The regulation implements DoDD 5000.1 and DoDD 5000.2, which are attached to it.

AFR 800-2 delegates maximum authority and responsibility for each program to the implementing command and the Program Manager to plan, organize, and conduct the acquisition, within the Air Force approved limits of system performance, schedule and funding. The Program Manager is the technical and administrative focal point for all program activities, including the participation of all other organizations.

4.46 AFR 800-3, Engineering of Defense Systems

This regulation establishes policy and principles for management of a single totally integrated engineering effort for all AFR 800-2 managed programs. The regulation defines eleven engineering tasks and discusses those generally applied to each of the phases of the acquisition life cycle.

4.47 AFR 800-4, Transfer of Program Management Responsibilities

This regulation states policy and assigns responsibilities for accomplishing Program Management Responsibility Transfer (PMRT). It applies to all programs under the acquisition policy of AFR 800-2.

A PMRT agreement will normally be completed prior to the beginning of the Production Phase, or at a more appropriate point in time, by mutual agreement of the involved commands.

Planning criteria and schedules for PMRT will be established by the Program Manager in conjunction with representatives of participating organizations early in the Full-Scale Development phase. Schedules will be established as program milestones and reflected in the PMP or other management documentation. Revisions must reflect the latest program direction and required actions will be monitored until completed. A working group may be established by the PM to insure that events are completed as scheduled.

4.48 AFR 800-6, Program Control - Financial

This regulation assigns responsibility and provides guidance for using management control techniques to fulfill reporting requirements and to collect financial and other management data for use in financial analysis and program control. The application of specific techniques will be specified in the PMD; they are Cost/Schedule Control Systems Criteria (C/SCSC), WBS, Cost Performance Report, Contract Funds Status Report, and Contractor Cost Data Reports. The latter three reports comprise all the financial information required by the Air Force in a single contract. If they meet C/SCSC criteria, contractors' internal reports may be substituted for the required reports. For C/SCSC, the aim is to satisfy the criteria and not to impose any new management control, procedures or organization upon the contractor. The descriptions of criteria for cost/schedule control and cost reporting are attached to the regulation. These attachments are DoDI 7000.2, DoDI 7000.10, and DoDI 7000.11.

4.49 AFR 800-8, Integrated Logistics Support (ILS) Program for Systems and Equipment

This regulation establishes policy and states criteria for the application of ILS throughout the entire life cycle of Air Force systems. The regulation requires: (a) conducting trade-offs among support logistic alternatives and system design alternatives; (b) performing system and cost effectiveness analysis; and (c) applying logistic support evaluation during contract source selection. A Deputy Program Manager for Logistics is assigned to a Program Office to participate in ILS planning and to implement ILS considerations in engineering, design and production efforts.

4.50 AFR 800-9, Production Management in the Acquisition Life Cycle

This regulation states policy and assigns responsibilities for production management during the acquisition life cycle. The regulation is concerned primarily with influencing system engineering and design for efficient and economical quantity production. Some production considerations can apply to software development; e.g., producibility analysis, readiness reviews, replaceability, maintainability, reliability, and logistic support availability and cost.

4.51 AFR 800-10, Management of Multi-Service Systems, Programs and Projects

This regulation authorizes the commanders of AFLC and AFSC to enter into agreements with their Army and Navy counterparts to develop arrangements concerning the management of Multi-Service systems. Unless altered by mutual agreement, the policies that are applied will be those of the Service that is designated as Executive Agent for a program.

4.52 AFR 800-11, Life Cycle Costing (LCC)

This regulation outlines policies for the utilization of life cycle costing in the development, acquisition and modification of defense systems and subsystems including the procurement of components and parts. The main objective of life cycle costing is to consider ownership (operation maintenance, support, etc.) cost, as well as development and acquisition cost. The use of life cycle costing is not intended to make minimum cost the predominant decision factor, but to insure a proper balance between cost and system effectiveness.

The regulation assigns responsibilities for the implementation of LCC within the Air Force and for reporting actions in which LCC was a decision factor.

4.53 AFR 800-12, Acquisition of Support Equipment

This regulation establishes policies and principles for the acquisition of support equipment; i.e., equipment and computer programs not part of mission equipment and not required to perform mission operational functions. The regulation emphasizes cost-effectiveness of support equipment and standardization within a given system and among other systems. Support computer programs must be planned, identified and controlled using MIL-STD-483 (USAF), as a guide. Testing (AFR 80-14) should demonstrate compatibility with mission equipment, and computer programs should be relatively free of errors.

4.54 AFR 800-14, Vol. I, Management of Computer Resources in Systems

This regulation establishes policy for the acquisition and support of computer equipment and computer programs employed as dedicated elements, subsystems, or components of systems developed or acquired under the program management concept established in AFR 800-2.

The objective of this regulation is to insure that computer resources (e.g., software, computers) in systems are planned, developed, acquired, employed, and supported to effectively, efficiently, and economically accomplish Air Force-assigned missions.

According to Air Force policy, computer resources in systems are managed as elements of major subsystems during all acquisition life cycle phases. System performance requirements are allocated to these subsystems using in-depth trade-off studies and cost-effectiveness analyses.

4.55 AFR 800-14, Vol. II, Acquisition and Support for Computer Resources in Systems

This regulation is meant to be a definitive treatment of the policies, procedures and guidance required to manage computer resource development, as defined by AFR 800-14, Vol. I. The specific areas this manual addresses are as follows:

- a. computer resources in the system acquisition life cycle
- b. initial planning
- c. engineering management
- d. computer program quality assurance
- e. configuration management
- f. documentation
- g. contractual aspects
- h. transition and turnover
- i. support
- j. computer program validation & verification (V&V).

4.56 AFR 800-15, Human Factors Engineering and Management

This regulation establishes policies and responsibilities to incorporate human factors engineering into the engineering and management efforts of all acquisition programs. Some human factors elements can be applied to computer programs; e.g., manning and training considerations, efficient human usage, and determining whether Air Force personnel with training can in fact operate, maintain and support the system in its intended operational environment.

4.57 AFR 800-19, System or Equipment Turnover

This regulation establishes policy and principles for the efficient turnover to an operating command of systems or equipment developed under the program management concept established in AFR 800-2. The regulation also assigns responsibilities to HQ USAF and the implementing command (normally the Air Force Systems Command (AFSC)) and defines documentation requirements.

4.58 TO 00-5-1, AF Technical Order System

The TO System is the official medium for disseminating technical information, instructions and safety procedures pertaining to the operation, installation, maintenance, inspection and modification of Air Force material. One type of TO is Automation Type TOs which are technical instructions furnished as punched tapes, cards, or magnetic tape. These storage media may

contain operational software, operating systems or maintenance programs. The system does not apply to publications for experimental equipment, development programs, or any computerized systems that are not to be maintained by Air Force personnel. All software, i.e., program listings, manuals, handbooks, etc., used in performing administrative tasks are specifically excluded from the TO system.

4.59 AFSC DH 4-2, Electronic Systems Test and Evaluation

The AFSC Design Handbooks are published as a primary means of documenting and applying Air Force technical knowledge in support of system and equipment acquisition programs. General design criteria and guidance suitable for use in the design and development of Air Force systems and equipment are published in these handbooks. The Design Handbooks preserve Air Force technical experience, summarize the lessons learned, and present the user with background data and a basis for technical requirements.

The Electronic Systems Test and Evaluation Handbook has been prepared for use with the technological and engineering disciplines involved in test and evaluation of Air Force command, communications, control, surveillance, and warning systems. Chapter 5 deals with computer program testing. The data contained in this handbook is intended for use with Air Force Systems Programs being conducted under the management concepts established in other regulations. The handbook is directed toward the testing and evaluation processes as set forth in AFR 80-14.

4.60 AFSCP/AFLCP 173-5, Cost/Schedule Control Systems Criteria Joint Implementation Guide

This guide provides procedures for use during planning and implementation of Cost/Schedule Control Systems Criteria and for surveillance of contractor compliance. The guide provides uniform guidance for the military departments and other Defense agencies responsible for implementation of the Cost/Schedule Control Systems Criteria (C/SCSC) consistent with the provisions of DoD Instruction 7000.2, implemented by AFR 800-6. It is a joint effort approved by the Air Force Systems Command (AFSC), the Air Force Logistics Command (AFLC), the Army Development and Readiness Command (DARCOM), the Naval Material Command (NMC), and the Defense Supply Agency (DSA).

4.61 AFSCP 800-3, A Guide for Program Management

This pamphlet covers those general considerations for management of a program which should interest all program management personnel. It provides an overview of program or project activities from conception through deployment. The major emphasis is on management flexibility, cost effectiveness, and reduction of risks through demonstration and hardware proofing prior to a production commitment.

4.62 AFSCP 800-6, Statement of Work Preparation Guide

This pamphlet tells how to define and organize task elements of a Statement of Work (SOW), and applies throughout AFSC's range of research and

system acquisition activities. The description covers all aspects of SOW writing. SOWs for various phases of the acquisition life cycle are described and examples given.

4.63 AFSCP/AFLCP 800-19, Joint Design-to-Cost Guide

This guide offers broad direction for establishing and tracking design-to-cost factors in major system procurements. PM and contractor roles are discussed in detail, particularly with regard to review schedules and subjects. Four types of reports are described: PM report, track estimate, hardware element summary, and design engineer report. Four contractual phases of programs with design-to-cost goals are outlined: Conceptual, Validation, Full-Scale Development, and Production. The need to eliminate requirements is stressed when they are non-essential or not cost-effective.

4.64 AFSCR 74-6, Procurement Quality Assurance for System Programs

This regulation outlines the responsibilities and relationships involved in managing quality assurance aspects of procurements. Responsibilities are divided among ASD/ADTC/ESD/SAMSO, AFSCMD, and AFPROs.

4.65 AFSCR 310-1, Management of Contractor Data

This regulation defines policy for AFSC acquisition of contractor-prepared data (generally documentation). It describes how to set up and use a data management office and gives instructions for preparing DD Form 1664 (i.e., the DID), DD Form 1423 (i.e., the CDRL), and AFSC Form 40. The ESD supplement expands on the AFSCR original. Guidelines are given to minimize data volume and the number of data items required.

4.66 AFSCR 800-1, Command Review of Systems Acquisition Programs and Test Resources

This regulation defines three classes of review of system acquisition programs: program assessment, command assessment, and field assessment. Details are given for responsibilities, locations, schedules, attendance, security, and times.

4.67 SAMSO Exhibit 73-3, Standard Engineering Practices for Computer Software Design and Development

This establishes engineering practices and procedures to be followed for large complex software development efforts and may also be applied to smaller efforts. The exhibit requires: (a) a software management procedures manual describing the methods of management control and organization that will be applied to the development; (b) a programming practices, standards, and conventions manual describing guidelines of program and data structure design, programming rules and sequencing, and other conventions to be followed by programmers; and (c) a software accountability system to administer the development activities and resulting products. The exhibit is a means of insuring that the software development process is a planned activity. It is

most applicable to long-term projects during the Full-Scale Development or Production acquisition life cycle phases.

4.68 SSD Exhibit 61-47B, Computer Program Subsystem Development Milestones

This identifies and describes nine milestone documents or products required during development of computer programs. The milestones are documents that establish: design criteria; implementation concepts; a test plan; interface specification; design specification; computer subprograms with supporting documentation and test cases; acceptance specification; operating instructions; and the computer program subsystem (code, tapes, etc.). Special emphasis in the document associates the milestones with tasks of overall system engineering, and of associate and integration contractors.

4.69 NAVY WS-8506, Requirements for Digital Computer Program Documentation

This is a Naval Ordnance Systems Command document establishing a uniform set of requirements for real-time computer programs for weapon control systems. The document claims to apply to any digital computer program documentation. It describes a format and content for eight types of document: computer program performance specification; computer program design specification; computer subprogram design document; common data base design document; computer program package (i.e., all items necessary to produce and maintain the computer program); computer program operator's manual; computer program test plan (including subprogram, program, system integration and acceptance testing); and computer program test procedures. All of these are normally deliverable items.

APPENDIX A

MASTER LIST OF ACTIVE DOCUMENTS

The following is a complete list of all current known RSS, Air Force, NSA and ESD standard DIDs, technical reports, and other government and ANSI publications, believed relevant to software development and acquisition for ESD managed C³ systems. This list effectively replaces Sections IV and V of the original RSS Guidebook (ESD-TR-75-91). Documents are grouped first by their issuing organization, and are subcategorized by type (e.g., DoDD, DoDI). Table 2 has the same arrangement, and may be helpful in locating organizations and types. (See Section 1.5.) Within each type category, the documents are listed alphanumerically by document ID. As Section 1.5 and Table 3-5 state, some document IDs incorporate additional type classification.

The entries for some ESD Technical Reports and RADC Technical Reports include additional identifiers. Where known, such documents' NTIS accession numbers and their source organizations' document numbers are listed in parentheses following each such report's document ID. For example, (TM-5772/002/002) and (AD-A048577) follow ESD-TR-77-263. The former is System Development Corporation's report number; the latter is the NTIS accession number. Similarly, (MTR-3180) and (AD-A027051) following ESD-TR-76-159 are that document's MITRE Technical Report number and NTIS accession number.

The entry for each document referenced in another SAM guidebook begins with one or more code numbers. Each code number is the arbitrary serial number of a referencing guidebook, as follows.

1. Project Guide to Content Requirement and Audience Needs;
2. Regulations, Specifications and Standards;
3. Contracting for Software Acquisition;
4. Monitoring and Reporting Software Development Status;
5. Statement of Work Preparation;
6. Reviews and Audits;
7. Configuration Management;
8. Computer Program Development Specifications;
9. Software Documentation Requirements;
10. Verification;
11. Validation and Certification;

12. Series Overview;
13. Software Maintenance;
14. Software Quality Assurance;
15. Software Cost Estimation and Measurement;
16. Software Development and Maintenance Facilities;
17. Life Cycle Events.

For example, code number 5 indicates the guidebook on Statement of Work Preparation, and code number 16 indicates the guidebook on Software Development and Maintenance Facilities. These codes are not volume numbers, and do not appear on the guidebooks themselves.

In addition to the referencing guidebook code numbers, if any, each entry contains:

- o document ID and date of latest issue,
- o identification of latest change (if any) to this issue,
- o corresponding change date (if known),
- o IDs and dates of known supplements, and
- o document title.

OFFICE OF MANAGEMENT AND BUDGET (OMB)

OMB Circulars

OMB Circular A-76 30 August 1967 Trans. Memo No. 1 30 August 1967 Trans. Memo No. 2 18 October 1976 Trans. Memo No. 3 13 June 1977	Policies for Acquiring Commercial and Industrial Products and Services for Government Use
OMB Circular A-109 5 April 1976	Major System Acquisition
OMB Circular A-171 6 March 1965	Responsibility for the Administration and Management of Automatic Data Processing Activities
(OMB Index)	(Index of OMB Circulars)

Other

OFPP Pamphlet No. 1
August 1976

Major System Acquisition - A Discussion
of the Application of OMB Circular
No. A-109

DEPARTMENT OF DEFENSE

Armed Services Procurement Regulation (ASPR) Sections and Parts

3	ASPR Section I	General Provisions
	ASPR Sec. I, Pt. 1	Introduction
3	ASPR Sec. I, Pt. 2	Definition of Terms
3	ASPR Sec. I, Pt. 3	General Policies
3	ASPR Sec. I, Pt. 10	Publicizing Procurement Actions
	ASPR Sec. I, Pt. 12	Specifications, Plans and Drawings
	ASPR Sec. I, Pt. 20	Limitation of Cost and Funds Under Cost Type Contracts
3	ASPR Sec. I, Pt. 21	Advance Procurement Planning
3	ASPR Section III	Procurement by Negotiation
3	ASPR Sec. III, Pt. 1	Use of Negotiation
3	ASPR Sec. III, Pt. 2	Circumstances Permitting Negotiation
3	ASPR Sec. III, Pt. 3	Determinations and Findings
3	ASPR Sec. III, Pt. 4	Types of Contracts
3	ASPR Sec. III, Pt. 5	Solicitation of Proposals and Quotations
3	ASPR Sec. III, Pt. 8	Price Negotiation Policies and Techniques
3	ASPR Sec. III, Pt. 11	Acquisition of Automatic Data Processing Equipment
	ASPR Sec. III, Pt. 12	Cost Accounting Standards
3	ASPR Section VII	Contract Clauses and Solicitation Provisions

3	ASPR Sec. VII, Pt. 3	Clauses for Fixed-Price Research and Development Contracts
3	ASPR Sec. VII, Pt. 4	Clauses for Cost-Reimbursement Type Research and Development Contracts
3	ASPR Section IX	Patents, Data, and Copyrights
3,9	ASPR Sec. IX, Pt. 2	Rights in Technical and Other Data and Copyrights
3,9	ASPR Sec. IX, Pt. 5	Acquisition of Technical Data and Computer Software
5	ASPR Sec. IX, Pt. 6	Rights in Computer Software Acquired Under Contract
	ASPR Section XV	Contract Cost Principles and Procedures
	ASPR Sec. XV, Pt. 1	Applicability
	ASPR Sec. XV, Pt. 2	Cost Type Contracts with Commercial Organization
5	ASPR Section XX	Administrative Matters
	ASPR Sec. XX, Pt. 3	Uniform Contract Line Item Numbering System
3	ASPR Section XXII	Service Contracts
3	ASPR Sec. XXII, Pt. 1	Service Contracts in General
3	ASPR Sec. XXII, Pt. 2	Procurement of Expert or Consultant Services
3	ASPR Sec. XXII, Pt. 3	Engineering and Technical Services
	ASPR Sec. XXII, Pt. 10	Communication Services
3	ASPR Section XXIII	Subcontracting Policies and Procedures
3	ASPR Sec. XXIII, Pt. 1	Review of Contractors' Procurement Systems
3	ASPR Sec. XXIII, Pt. 2	Requirement for Consent to Subcontracts
	ASPR Section XXVI	Contract Modifications
	ASPR Sec. XXVI, Pt. 1	General

	ASPR Sec. XXVI, Pt. 2	Change Orders
	ASPR Sec. XXVI, Pt. 3	Supplemental Agreements
	ASPR Sec. XXVI, Pt. 7	Other Modifications
	ASPR Sec. XXVI, Pt. 8	Notification of Changes
3	ASPR APPENDIX J	Authorization for Negotiation
3	ASPR APPENDIX K	Pre-Award Survey Procedures
<u>Data Item Descriptions (DIDs)</u>		
9	DI-A-3002 21 May 1971	R&D Status Report
4,9	DI-A-3007 1 November 1971	Program Schedule
4,9	DI-A-3009 21 May 1971	Program Milestones (Acquisition Phase)
9	DI-A-3022 7 December 1972	Contract Data Management Plan
4	DI-A-3023 21 May 1971	Contract Work Breakdown Structure
4,5,9	DI-A-3027 26 February 1971	Data Accession List/Internal Data
4,6,7,9, 10	DI-A-3029 21 May 1971	Agenda, Design Reviews, Configuration Audits and Demonstrations
	DI-A-5001A 20 April 1971	Funds Expenditure Chart
	DI-A-5002 1 October 1967	Cost Report (Assignment Type Contract)
	DI-A-5004A 20 May 1977	Project Status Report
	DI-A-5013 1 October 1967	Specifications (Including Purchase Description)
	DI-A-5016 1 October 1967	Project Planning/Actual Progress Chart (Other than Fixed Price Contracts)
	DI-A-5024 1 October 1967	Preliminary Pert/Time Network and Analysis Report

	DI-A-5025 1 October 1967	Periodic Pert/Time Network and Analysis Report
	DI-A-5027 1 October 1967	Commercially Available Computer Data
	DI-A-5303 3 January 1974	Cost Allocation Report
	DI-A-5323 16 August 1972	Computer Software Project Planning Chart
	DI-A-5345 31 July 1973	Design to Cost Data
	DI-A-5398 20 July 1976	Contractor Notification of Changes to Commercial Equipment and Software
	DI-A-30001 10 March 1976	Software Delivery Documentation
	DI-A-30022 1 July 1977	Quarterly Abstract of Computer Programs
	DI-A-30023 1 July 1977	ADPE Systems Configuration Report (Schematics)
	DI(U)-E-730/ESD 17 December 1977	Computer Program Development Plan
6,7,9, 14,17	DI-E-3101 26 February 1971	System Specification
17	DI-E-3102A 17 April 1972	Configuration Item Development Specification
17	DI-E-3103A 17 April 1972	Configuration Item Product Fabrication Specification
7,9	DI-E-3104 26 February 1971	Addendum Specification
7	DI-E-3105 26 February 1971	Inventory Item Specification
7,9	DI-E-3107 26 February 1971	Installation Completion Notification
4,7,9, 10	DI-E-3108 26 February 1971	Configuration Management Plan (CMP)

9	DI-E-3114 1 November 1971	System Modification Design Data and Reports
9	DI-E-3116 26 February 1971	System Allocation Document (SAD)
9	DI-E-3117 26 February 1971	System Segment Specification (Modification Programs)
4,6,7,9, 10,14,17	DI-E-3118 26 February 1971	Minutes of Formal Reviews, Inspections and Audits
6,7,8,9, 10,14,17	DI-E-3119A 17 April 1972	Computer Program Development Specification
7,9,10, 14,17	DI-E-3120A 17 April 1972	Computer Program Product Specification
5,7,9, 14,17	DI-E-3121 26 February 1971	Version Description Document (Computer Programs)
7,9	DI-E-3122 26 February 1971	Configuration Index
7,9	DI-E-3123 26 February 1971	Change Status Report (Computer Program)
9	DI-E-3127 26 February 1971	Advance Change/Study Notice (ACSN)
7,9,14, 17	DI-E-3128 26 February 1971	Engineering Change Proposals (ECPs)
9,14	DI-E-3129 26 February 1971	Request for Deviation/Waiver
	DI-E-3132 26 February 1971	Configuration Item Product Function Specification
	DI-E-3133 26 February 1971	Configuration Management Accounting Reports (Machine or Manually Prepared)
7,9,17	DI-E-3134 26 February 1971	Specification Change Notice (Computer Program)
	DI-E-3138 1 November 1971	AFSC Design Handbook Changes
	DI-E-5037 15 December 1969	Work Breakdown Structures for Defense Material Items

DI-E-5384 29 May 1974	Functional Specification Contractor Developed
DI-E-7013A 9 February 1976	Drawings, Engineering and Associated Lists, Level 1 (Conceptual and Development Design)
DI-E-30102 3 January 1972	Computer Program Detail Specification
DI-E-30104 30 May 1973	Functional Description (FD)
DI-E-30105 30 November 1973	Data Requirements Document (RD)
DI-E-30106 30 November 1973	Data Base Specification (DS)
DI-E-30109 29 January 1969	Computer Programming Documentation (Internal)
DI-E-30110 10 March 1976	Computer Program Product Specification
DI-E-30111 10 March 1976	Computer Program Flowcharts
DI-E-30112 10 March 1976	Computer Program Listings
DI-E-30113 10 March 1976	Computer Program Development Specification
DI-E-30139 14 July 1976	Computer Program Development Specification
DI-E-30140 14 July 1976	Computer Program Product Specification
DI-E-30141 15 October 1973	Interface Specification
DI-E-30145 9 May 1976	Computer Software/Computer Program/Computer Data Base Configuration Item(s)
DI-E-30148 29 September 1969	Engineering Drawings
DI-E-30149 29 September 1969	Research and Development Computer Software

	DI-E-30150 31 May 1977	Visual Data Base Description Document
	DI-F-6000A 15 December 1972	Cost Performance Report (CPR)
	DI-F-6004A 15 December 1972	Contract Funds Status Report (CFSR)
	DI-F-6006 5 November 1973	Cost Data Summary Report (DD Form 1921)
	DI-F-6010 15 July 1974	Cost/Schedule Status Report (C/SSR)
	DI-F-30202 23 September 1976	Automatic Data Processing (ADP) Manpower and Cost
	DI-F-30203 26 January 1977	Design to Cost/Life Cycle Cost Document
	DI-F-30207 16 April 1976	Input Data for Parametric Cost Model
	DI-F-30208 3 February 1977	Cost Estimate Analysis
9	DI-H-3251 1 November 1971	Personnel Subsystem/Human Factors Development Plan (HFDP)
6,14	DI-H-3253 24 August 1970	Qualitative and Quantitative Personnel Requirements Information (QQPRI), Part I: Field and Organization Maintenance
9	DI-H-3258A 4 September 1973	Training Support Data
9	DI-H-3261A 1 November 1971	Human Engineering Design Approach Document
9,14	DI-H-3267 21 May 1971	Evaluation Needs/Exercise Requirements Analysis
9,14	DI-H-3269A 21 May 1971	Training Needs/Exercising Requirements Analysis
6,14	DI-H-3270A 21 May 1971	Exercising Capability Implementation Plan (ECIP)
9	DI-H-3272 24 August 1970	Personnel Subsystem Test and Evaluation (PSTE) Plan

	DI-H-3277 7 December 1972	Training Equipment Computer Program Documentation
	DI-H-5066 1 October 1967	System Monitor-Executive Program (Software)
	DI-H-5067 1 October 1967	Assembly Language (Software)
	DI-H-5068 1 October 1967	Data Processing Packages for Procedural Languages (Software)
	DI-H-5069 1 October 1967	Advanced Program Languages (Software)
	DI-H-5070 1 October 1967	System Maintenance Programs (Software)
	DI-H-5071 1 October 1967	Code Generation Specifications (Software)
	DI-H-5072A 14 August 1972	Computer Software End Item
	DI-H-5074B 14 August 1972	Computer Software Design Plan
	DI-H-5076A 14 August 1972	Computer Software Change Proposal
	DI-H-5077 15 May 1969	Revised Computer Software Supporting Data
	DI-H-5201 14 August 1972	Computer Software Flowchart(s) Standards
	DI-H-5202 14 August 1972	Computer Software Design Plan
	DI-H-5256 15 August 1972	Computer Software Technical Description
9	DI-H-7012 11 August 1975	Human Operator/Critical Tasks Analysis Report
	DI-L-30309 23 September 1976	Automatic Data Processing Equipment (ADPE) Cost and Utilization
9	DI-M-3401 9 February 1970	Technical Order Publication Plan

9	DI-M-3402 9 February 1970	Technical Order Status and Schedules
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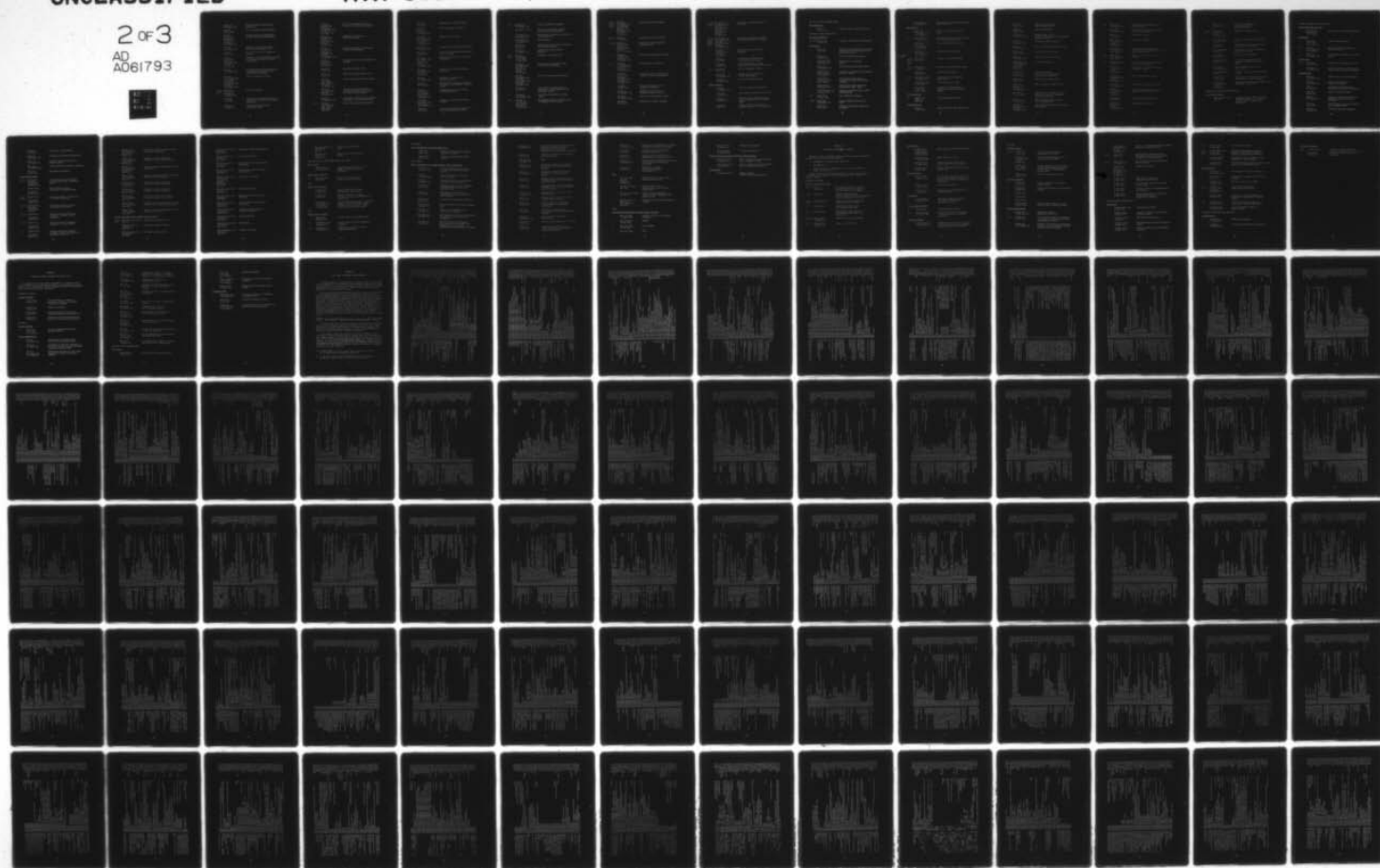
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2	AFR 300-3 20 March 1974	Automatic Data Processing, Planning, Programming, and Budgeting Information System
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	AFSCR 23-3 2 February 1976	Aeronautical Systems Division
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2,5,9, 15	AFSCR 310-1 11 March 1974 ESD Sup. 1 10 October 1974	Management of Contractor Data
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2	ESDR 81-1 30 December 1974	Processing of Military Specifications
2	ESDR 173-1 31 January 1977	Electronic Systems Division Cost Analysis Program
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5,7,16, 17	ESD-TR-76-159 (MTR-3180) (AD-A027051) June 1976	An Air Force Guide to Software Documentation Requirements
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7,17	ESD-TR-77-130 (AD-A038234) April 1977	Software Acquisition Management Guidebook: Software Development and Maintenance Facilities

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	ESD-TR-77-263 (TM-5772/002/02) (AD-A048577) August 1977	Software Acquisition Management Guidebook: Verification
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2	FIPS Pub 1 1 November 1968	Code for Information Interchange (Usas X3.4-1968)
	FIPS Pub 2 1 November 1968	Perforated Tape Code for Information Interchange (Usas X3.6-1965)
	FIPS Pub 3-1 30 June 1973	Recorded Magnetic Tape for Information INTERCHANGE (800 Cpi, NRZI, with ANSI X3.22-1973)
	FIPS Pub 7 7 March 1969	Implementation of the Code for Information Interchange and Related Media Standards
	FIPS Pub 11-1 24 June 1977	Dictionary for Information Processing
	FIPS Pub 12-2 1 December 1974	Federal Information Processing Standards Index
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	FIPS Pub 16-1 1 December 1976	Bit Sequencing of the Code for Information Interchange in Serial by Bit Data Transmission
	FIPS Pub 17-1 1 October 1971	Character Structure and Character Parity Sense for Serial-by-bit Data Communication in the Code for Information Interchange (ANSI X3.16-1966)

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2	FIPS Pub 20 1 March 1972	Guidelines for Describing Information Interchange Formats
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	FIPS Pub 22-1 1 November 1972	Synchronous Signaling Rates Between Data Terminal and Data Communication Equipment
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	FIPS Pub 24 30 June 1973	Flowchart Symbols and their Usage in INTERCHANGE (1600 Cpi, Phase Encoded) (ANSI X3.39-1973)
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2	FIPS Pub 29 30 June 1974	Interpretation Procedures for Federal Standard COBOL (C13.52.29)
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Computer Program
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APPENDIX B

RESCINDED AND SUPERCEDED DOCUMENTS

Appendix B lists the documents mentioned in the original RSS Guidebook (ESD-TR-75-91) that have since been either:

1. superseded by or combined with another (S),
2. rescinded (R), or
3. dropped (D) from the appropriate index of active documents for reasons unknown to us.

Appendix B has the same format as Appendix A, except that (S), (R), or (D) precedes the document ID of each document superseded, rescinded or otherwise dropped.

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5,9,14	(S)TD-3 1 June 1976	DoD Authorized Data List, Index of Data Item Descriptions [Superseded by DoDD 5000.19-L, V.11 (AMSDL)]
5,9,17	(S)DI-E-129	Computer Software/Computer Program/Computer Data Base Configuration Item(s) [Superseded by DI-E-30145]
3,5,9, 15,17	(S)DI-E-695/ESD	Computer Program Development Plan [Superseded by DI-E-730/ESD]
9	(S)DI-E-3145	Engineering Drawing (ICDs) [Superseded by DI-E-7013A]
6,14	(S)DI-H-3268A	Human Operator Task Analysis for Information Systems [Superseded by DI-H-7012]
9,14,17	(R)DI-T-3706 24 August 1970	Category II Test Plan Procedures
9,14	(R)DI-T-3719 24 August 1970	Category II Test Reports

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	(D)DoDD 4105.30 11 March 1959 Changes through 18 January 1972	Armed Services Procurement Regulations
2	(D)DoDD 4120.16 27 September 1972	COBOL Compiler Validation
17	(R)DoDD 5000.26 21 January 1975	Defense Systems Acquisition Review Council [Cancelled by DoDD 5000.2]
2	(R)DoDD 5126.34 27 July 1966	Defense Procurement Management Review Program (I&L)

DoD Instructions

17	(R)DoDI 5000.2 21 January 1971	The Decision Coordinating Paper (DCP) and the Defense Systems Acquisition Review Council (DSARC) [Cancelled by DoDD 5000.2]
2	(D)DoDI 7000.8 4 January 1970	Cost Performance Report
2	(D)DoDI 7220.25 15 June 1972	Standard Rates for Costing Military Personnel Services

DoD Manuals

2	(S)DoD 7000.6-M September 1973	Acquisition Management Systems List (AMSL) [Superceded by DoD 5000.19-L, V.II]
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Military Specifications

7	(D)MIL-D-100	Engineering Design Practice
2,4	(R)MIL-P-23189A 25 October 1962	Pert/time and Pert/cost Management Information Systems for Planning and Control

Military Standards

2	(S)MIL-STD-1631A 28 September 1973	Procedure for Selection of Electronic and Electrical Parts During Equipment Design [Superceded by MIL-STD-965]
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AIR FORCE

Air Force Manuals

2,3,15	(S)AFM 70-6 22 June 1973	Source-Selection Procedures [Superceded by AFR 70-15]
2	(D)AFM 70-9 1 November 1973 ESD Sup. 1 10 June 1974	Technical Representatives of the Contracting Office (TRCO)
2	(S)AFM 100-24 incl. Change 2 21 April 1972	Standard Computer Programing Language for Air Force Command and Control Systems (JOVIAL-J3) [Superceded by MIL-STD-1588]
2	(D)AFM 173-10 1 April 1973	USAF Cost and Planning Factors

Air Force Pamphlets

2	(D)AFP 70-14 1 March 1974	PIECOST (Probability of Incurring Estimated Cost)
2	(D)AFP 205-2 1 August 1967	Communications Security and Transmission Security
2	(D)AFP 207-1	
2	(D)AFP 207-3	
2	(D)AFP 207-21	
2	(R)AFP 400-28 30 August 1974	Air Force Advanced Logistics System Impact on Major Commands and Bases

Air Force Regulations

2	(S)AFR 26-10 24 February 1964	Manpower Utilization [Superceded by AFM 26-1]
2,16	(S)AFR 26-12 29 June 1974	Use of Contract Services and Operation of Commercial or Industrial Activities [Superceded by AFM 26-1]
2	(D)AFR 80-46 23 September 1970	Management of Personnel Subsystem/Human Factors in System, Subsystem, Equipment and Modification Development

2	(S)AFR 100-51 14 November 1973 ESD Sup. 1 15 August 1974	Control of Compromising Emanations (TEMPEST) [Superceded by AFR 100-45, V.1]
2,13	(R)AFR 102-5 3 May 1972	USAF Management Policies Governing Development, Acquisition and Operation of Command and Control Systems
2,15	(D)AFR 173-2 16 December 1971	USAF Cost Estimating Relationship/Cost Factors Program
2	(D)AFR 205-7 16 April 1973 AFSC Sup. 1 20 December 1973 ESD Sup. 1 15 March 1974	Communications Security
2,4	(S)AFR 300-11 12 April 1973	COBOL Compiler Validation (Superceded by AFR 300-10)
2	(D)AFR 375-8 30 July 1969	Work Breakdown Structure for Defense Materiel Items
2	(D)AFR 400-26 15 July 1971	Logistics Support for Systems/Equipment Test Programs
2	(S)AFR 400-46 18 March 1965	Increased Reliability of Operational Systems (IROS) Program [Superceded by AFR 66-30]

AIR FORCE SYSTEMS COMMAND (AFSC)

AFSC Manuals

2	(R)AFSCM/AFLCM 70-6 9 April 1971	Coordinated Procurement
2	(R)AFSCM 70-375 16 March 1970	Contractor Capability and Performance Evaluation System
2	(R)AFSCM 171-246 15 May 1974	R&D Contract Status Reports
2	(R)AFSCM 171-267 30 March 1972	AFSC Maintenance Performance Monitoring System
2	(R)AFSCM 171-375 15 April 1970	Contractor Capability and Performance Evaluation

2,15	(R)AFSCM 173-2 31 July 1968	Cost Information System
2,6,7, 8,9, 10,14	(S)AFSCM/AFLCM 375-7 31 March 1971 incl. Change 1	Configuration Management for Systems, Equipment, Munitions, and Computer Programs [Superceded by AFSCP 800-7]
2	(S)AFSCM 375-380 1 October 1970	Configuration Status Accounting System [Superceded by AFSCM 800-380]
2	(S)AFSCM 400-4 18 March 1969	Standard Integrated Support Management System [Superceded by AFSCR/AFLCR 800-24]

AFSC Regulations

2	(R)AFSCR 8-2 18 September 1974	AFSC Maintenance Technical Directives
2	(R)AFSCR 70-3 28 June 1974	Acquisition of Automatic Data Processing Equipment
2	(R)AFSCR 70-6 2 February 1970	R&D Source Selection Procedures
2,3,5, 17	(S)AFSCR 70-9 16 August 1974 (R)ESD Sup. 1 20 October 1975	Source Selection Procedures [Superceded by AFSCR 70-15]
2	(R)AFSCR 70-14 31 March 1971	Preparation of Purchase Requests and Military Interdepartmental Procurement Requests
2,11	(S)AFSCR 800-7 31 January 1973	Transition Planning and Agreements [Superceded by AFR 800-4/AFSC Sup. 1]
2	(R)AFSCR 800-10 22 January 1973	Contract Management Support to Program Offices

ELECTRONIC SYSTEMS DIVISION (AFSC/ESD)

ESD Regulations

2	(R)ESDR 66-5 25 October 1972	Maintenance Management
2	(R)ESDR 84-2 25 November 1974	Electronic Systems Production Management

ESD Technical Reports

5,7,9, (S)ESD-TR-75-91
17
(AD-A016401)
October 1975

Software Acquisition Management
Guidebook: Regulations, Specifications,
and Standards [Superceded by this
Guidebook]

APPENDIX C

MARGINALLY RELEVANT DOCUMENTS PREVIOUSLY CITED

This appendix has the same format as Appendix A. It lists the still active documents, cited in the previous version of this guidebook, that the authors of the current version deem only marginally relevant to ESD-managed C3 system software development or acquisition.

DEPARTMENT OF DEFENSE

Military Standards

2	MIL-STD-1345A 21 March 1975	Data, Measurement, in Support of Maintenance, Calibration and Repair of Electronic Equipment
2	MIL-STD-1528 1 August 1972	Production Management
2	MIL-STD-1602 8 June 1973	Progress Reports for Research and Development Equipment, Requirements for
2	MIL-STD-1641 1 March 1974	Preparation of Pert/time Networks and Reports for Training Device Contracts

AIR FORCE

Air Force Manuals

2	AFM 175-118 17 May 1974 incl. Change 2	Air Force Audit/Management System (AFA/MS): P090/VL
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Air Force Regulations

2	AFR 70-1 9 February 1972	Procurement of AF Assigned Items Under the DoD Coordinated Program
2	AFR 70-10 12 August 1969	Procurement of Electronic Equipment for Triservice Use Under the DoD Coordinated Procurement Program F(CONUS)
2	AFR 70-11 5 December 1968 incl. Change 6	Implementing Procedures for Army Single Department Procurement Assignments F(CONUS)

2	AFR 70-13 29 October 1969 incl. Change 1	Implementing Procedures for Single Department Procurement of Commodities Assigned to the Department of the Navy
2	AFR 80-38 6 September 1973	Management of the Air Force Survivability Program
2	AFR 80-51 23 July 1971	Management of R&D Requirements in the Personnel, Training and Education Program
2	AFR 100-8 24 March 1972 incl. Change 1 AFSC Sup. 1 20 October 1972	Programming of Major Telecommunication Requirements
2	AFR 100-27 26 February 1973	Release or Disclosure of Unclassified Messages
2	AFR 100-41 8 November 1968	Handling Message Traffic for Other Government Agencies
2	AFR 127-8 19 April 1976 AFSC Sup. 1 27 August 1976	Responsibilities for USAF System Safety Engineering Programs
2	AFR 127-13 15 May 1973 AFSC Sup. 1 12 August 1974	Responsibilities for the USAF Aerospace Safety Program (PA)
2	AFR 178-1 28 December 1973	Economic Analysis and Program Evaluation for Resource Management
2	AFR 205-25 6 August 1976 incl. Change 2	(S) Safeguarding the Single Integrated Operational Plan (SIOP)
2	AFR 205-28 10 August 1973	(S) Communications Security for Nuclear Command and Control Communications

AIR FORCE SYSTEMS COMMAND (AFSC)

AFSC Manuals

2	AFSCM 70-480 15 August 1973	Procurement Action Reporting System
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2	AFSCM 84-3 14 May 1971 incl. Change 1	Production Management
2	AFSCM 171-480, V.1 15 March 1971 incl. Change 4	Procurement Action Reporting System (J001A/JG)
2	AFSCM 171-490 15 August 1974	Automated Reports Management System: P031/KX

AFSC Regulations

2	AFSCR/AFLCR 65-8 15 November 1974	Utilization of Assets as Government Furnished Material
2	AFSCR 70-10 28 May 1976	Physically Completed Contracts
	AFSCR 800-13 16 December 1974 incl. Change 2	Management Control in the Selection of Parts in New Equipment Design

APPENDIX D

KWIC INDEX OF RELEVANT ACTIVE DOCUMENTS

This KWIC (Keyword in Context) Index is a subject index of all documents listed in Appendix A. Each document is listed alphabetically by title and by any key phrases in the title that the authors consider significant. Each KWIC index entry is one line consisting of a document title on the left and the document's ID in the rightmost 24 columns.

The significant phrase (which may be either the first part of the title or some subsequent key phrase in the title) begins in column 33. If an entry's significant phrase is not the title's initial phrase, the title will be shifted left such that the significant phrase for each entry will always begin in the same position (column 33). If the significant phrase is not the first part of the title, the left context of the significant phrase will precede it in columns 1-30. If the entry's entire left context will not fit there, as many as 32 additional left context characters, preceded by a vertical bar (|), will appear, right-justified, in columns 74-105. As many characters of the right context as will fit before any left context will follow the significant phrase in columns 74-105, and (if space permits) in columns 1-30 followed by a vertical bar. Any rightmost right context characters that won't fit will be discarded. The following depicts this KWIC format:

Columns:	1	-	30	33	-	105	107	-	130
Content:	Left Context*			Significant Phrase & Right Context**			Document ID		

To use the KWIC index, scan the significant phrases beginning in column 33 of successive lines to find phrases (subjects) of interest, and examine their left (if any) and right contexts. If document titles appear to be of interest, their document IDs may be used as keys to reference additional information about the documents contained in Appendix A.

As an example, assume that one wants to find all documents on "cost performance". First, one should look in the KWIC Index and find titles with the significant phrase "cost performance" beginning in column 33. There are two. One is entitled Cost Performance Report (CPR) with a document ID of DI-F-6000A. The other is entitled Contract Cost Performance, Funds Status and Cost/Schedule Status Reports (C), with the ID DoDI 7000.10. Both are listed in Appendix A, first by agency (both are listed under Department of Defense) and then by type and document ID.

* If space permits, the left context may be preceded by a vertical bar and right context continuation characters.

** If the left context exceeds 30 characters, its first characters, preceded by a vertical bar, will follow the right context.

Software	Acquisition Management Guidebook: Reviews and Audits	ESD-TR-78-117
Software	Acquisition Management Guidebook: Software Maintenance	ESD-TR-77-327
Software	Acquisition Management Guidebook: Software Quality Assurance	ESD-TR-77-255
Software	Acquisition Management Guidebook: Software Development and Maintenance	ESD-TR-77-130
Software	Acquisition Management Guidebook: Software Cost Estimation and Measurement	ESD-TR-78-140
Software	Acquisition Management Guidebook: Statement of Work Preparation	ESD-TR-77-16
Software	Acquisition Management Guidebook: Validation and Certification	ESD-TR-77-326
Software	Acquisition Management Guidebook: Verification	ESD-TR-77-263
AFSC	Acquisition Management Information System (AMIS)	AFSCR 70-13
C/AFSC/AFSC List of Authorized	Acquisition Management Systems	AFSCR/AFSCR 800-14
DoD	Acquisition Management Systems and Data Requirements Control Program (C)	DoDI 5000.32
Department of Defense	Acquisition Management Systems and Data Requirements Control List (AMSDL)	DoDD 5000.19-L, V.II
Air Force Computer	Acquisition Office (AFCAO)	AFR 23-24
Program Milestones (Acquisition Phase)	DI-A-3009
ESD	Acquisition Procedures for Scientific and Technical Information	ESDR 5-3
Major System	Acquisition Process (DDR&E)	DoDD 5000.2
	Acquisition Program Management	AFR 800-2
t-Furnished Materiel for Major	Acquisition Programs (I&L)	DoDI 4140.41
Command Review of Systems	Acquisition Programs and Test Resources	AFSCR 800-1
Selected	Acquisition Reports (SAR) (C)	DoDI 7000.3
Selected	Acquisition Reports (SARs)	AFR 800-5
Program	Acquisition Visibility Briefings	ESDR 178-6
ent Guide to Avionics Software	Acquisition Volume III - Summary of Software Related Standards and Management	ASD-TR-76-11, V.III
Policies on Selection,	Acquisition, and Management of Automatic Data Processing Resources	DIAI 65-1
dards in Naval Weapons Systems	Tailoring Guide for Application	MIL-HDBK 248
financial Reporting on Selected	Surveillance of Management Control	AFSCR 70-11
ance Measurement for Selected	Perfor	DoDI 7000.2
Major System	Acquisitions (C)	DoDD 5000.1
Program	Acquisitions (DDR&E)	AFSCR 27-7
Publicizing Procurement	Action Directive (PAD)	ASPR Sec. I, Pt. 10
t of Automatic Data Processing	Activities	OMB Circular A-171
	Addendum Specification	DI-E-3104
Responsibility for the	Administration and Management of Automatic Data Processing Activities	OMB Circular A-171
Responsibility for the	Administration and Support of Basic Research by the DoD (DDR&E)	DoDD 3210.1
Military Standard Contract	Administration of the DoD Automatic Data Processing Program (C)	DoDD 5100.40
	Administration Procedures (MILSCAP)	DoD 4105.63-M
Index of DIA	Administrative Matters	ASPR Section XX
ilitary Publications, Index of	Administrative Publications	DIAR 0-2
	Administrative Publications	DA PAM 310-1
	Advance Change/Study Notice (ACSN)	DI-E-3127
	Advanced Procurement Planning	ASPR Sec. I, Pt. 21
	Advanced Computer Programming Language Manuals	DI-M-5094
	Advanced Development	AFSCM 80-5
	Advanced Development Technology Program Plans	AFSCR 80-1
	Advanced Development Technology Programs	AFSCR 80-19
an/Procedures (Exploratory or	Advanced Development)	DI-I-30701

The US Air Force Scientific	Advanced Program Languages (Software)	DI-H-5069
	Advisory Board	AFR 20-30
	Aeronautical Systems Division	AFSCR 23-3
AFSC	Aerospace Resources and Configuration System (ARCS) (DSD: G299(RY))	AFSCM 171-271
Index of National	Aerospace Standards - Part I, Numerical Listing	(NASI Index Part I)
Index of National	Aerospace Standards - Part II, Alphabetical Listing	(NASI Index Part II)
Air Force Data Automation	Agency	AFR 23-40
Defense Communications	Agency (DCA) (DTACGS)	DoDD 5105.19
Defense Intelligence	Agency (DIA) and Specialized USAF Intelligence Publications	AFR 0-15
Defense Supply	Agency Publications	AFR 5-9
Air Force and Other Government	Agency Publications	AFR 0-16
Defense Supply	Agency Publications (C)	DoDI 5025.7
Defense Intelligence	Agency Publications System (I)	DoDI 5025.10
	Agenda, Design Reviews, Configuration Audits and Demonstrations	DI-A-3029
Memorandum of	Agreement	ESDR 800-1
Supplemental	Agreements	ASPP Sec. XXVI, Pt. 3
ncillary Equipment Programming	Aids (Software) & Manuals	DI-M-5110A
Rome	Air Development Center	ESDR 23-4
Auditing in the	Air Force	AFR 175-4
Miscellaneous	Air Force and Other Government Agency Publications	AFR 0-16
Standards, and Policies of the	Air Force Accounting and Finance System	AFM 177-100
Interservice Publications and	Air Force Acquisition Documents	AFR 0-4
	Air Force Communications Service	AFR 23-32
The	Air Force Computer Acquisition Office (AFCAO)	AFR 23-24
	Air Force Cost Analysis Program	AFR 173-1
	Air Force Data Automation Agency	AFR 23-40
	Air Force Data Services Center	AFR 23-41
	Air Force Data Systems Design Center (AFDSDC)	AFR 23-42
	Air Force Engineering Responsibility for Systems and Equipment	AFSCR/AFCLR 80-17
	Air Force Glossary of Comptroller Terms	AFM 11-1, V.2
US	Air Force Glossary of Standardized Terms	AFM 11-1, V.1
An	Air Force Guide to the Computer Program Development Specification	ESD-TR-78-139
An	Air Force Guide to Computer Program Configuration Management	ESD-TR-77-254
An	Air Force Guide to Contracting for Software Acquisition	ESD-TR-75-365
An	Air Force Guide to Monitoring and Reporting Software Development Status	ESD-TR-75-85
An	Air Force Guide to Software Documentation Requirements	ESD-TR-76-159
Management of	Air Force In-House Research and Development Labs	AFR 80-3
Do's and Don'ts of	Air Force Industry Relations	AFR 70-1
	Air Force Logistics Command (AFLC)	AFR 23-2
	Air Force Manual of Abbreviations	AFM 11-2
The	Air Force Nuclear Safety Program	AFR 122-1
	Air Force Output/Measurement/Management Indicator Systems	AFR 178-4
	Air Force Policy on the Support of Research	AFR 80-4
	Air Force Procurement Career Management Program	AFM 70-2
Contract and Documentation of	Air Force Programs	AFR 27-9
	Air Force Publications Management Program	AFR 5-1

ents Used in the Management of The US	Air Force Quality Assurance Program Air Force Research and Development Air Force Research and Development Air Force Scientific Advisory Board Air Force Systems Command (AFSC) Air Force Technical Order (TO) System Air Force Test and Evaluation Center (AFTEC) Air Force Value Engineering Program Air Training Command Allocation Document (SAD) Allocation Report Allocation Sheets Allocations, Assessments, and Analysis Report Alphabetical Index, and Cross Reference Table Technical Orders Alphabetical Listing Alphabetical Listing Ancillary Equipment Programming Aids (Software) & Manuals Applicability Approval Armed Services Procurement Regulation Committee (I&L) Armed Services Procurement Regulations Arrangements Assembly Language (Software) Assessment and Demonstration Reports Assessment Review (MAR)/Program Management Review Process Assessments of Advanced Development Technology Programs Assessments, and Analysis Report Assets Utilized as Government-Furnished Materiel for Major Acquisition Pr Assignment Type Contract) Assistant Secretary of Defense (Comptroller) (C) Audience Needs Audit Auditing in the Air Force Audits Audits Audits and Demonstrations Audits for Systems, Equipment, and Computer Programs Authorization for Negotiation Authorized Acquisition Management Systems Autodin) Operating Procedures Automated Data System Development (C) Automated Data System Documentation Standards Manual Automated Data System Documentation Standards (C) Automated Data System Project Management	Docum	AFR 74-1 AFR 80-1 AFR 80-2 AFR 20-30 AFR 23-8 AFR 23-34 AFR 8-2 TO 00-5-1 AFR 23-36 AFR 320-1 AFR 23-6 DI-E-3116 DI-A-5303 DI-S-3605 DI-R-3535 TO 0-1-01 (DoD ISS Part I) (NASI Index Part II) DI-M-5110A ASPR Sec. XV, Pt. 1 AFR 57-4 DoDI 5126.3 ESD ASPR Sup. 1 MIL-STD-1280 DI-H-5067 DI-R-3544 AFSCR 800-27 AFSCR 80-19 DI-R-3535 DoDI 4140.41 DI-A-5002 DoDD 5118.3 ESD-TR-75-308 AFR 175-2 AFR 175-4 ESD-TR-78-117 DI-E-3118 DI-A-3029 MIL-STD-1521A(USAF) ASPR APPENDIX J AFSCR/AFLCR 800-14 JANAP 128 DoDI 5010.27 DoD 4120.17-M DoDI 4120.17 AFR 300-15
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ation of Computer Programs and scribing Computer Programs and DoD	Automated Data Systems Automated Data Systems Automated Engineering Documentation Preparation System Automatic Data Processing (ADP) Manpower and Cost Automatic Data Processing (ADP) Resource Management Automatic Data Processing (ADP) Systems (C) Automatic Data Processing Activities Automatic Data Processing Computer Program and Related Services (C) Automatic Data Processing Equipment Automatic Data Processing Equipment Reutilization Manual Automatic Data Processing Equipment Reutilization Program (C) Automatic Data Processing Management Information System (ADP/MIS) (C) Automatic Data Processing Physical Security and Risk Management Automatic Data Processing Planning Concepts Automatic Data Processing Program (C) Automatic Data Processing Program Management Automatic Data Processing Resources (C) Automatic Data Processing Systems Automatic Data Processing Systems Automatic Data Processing Systems (ADPS) Automatic Data Processing Systems (ADPS) Automatic Data Processing, Planning, Programming, and Budgeting Information Automatic Data Systems (ADS) Standards Automatic Digital Network (Autodin) Operating Procedures Automation Agency Available Computer Data Avionics Software Acquisition Volume III - Summary of Software Related Status ACPs ACSN)	[Guidelines for Document Software Summary for De	FIPS Pub 38 FIPS Pub 30 DoDI 7935-1 MIL-STD-35C DI-F-30202 AFM 300-6 DoDD 5200.28 OMB Circular A-171 DoDI 4105.65 ASPR Sec. III, Pt. 11 DI-L-30309 DoD 4160.19-4 DoDD 4160.19 DoDI 4140.38 FIPS Pub 31 AFR 300-7 DoDD 5100.40 AFR 300-1 DIAI 65-1 DoDD 4105.55 AFR 300-2 AFM 300-12, V. 1-2 AFR 300-13 AFR 300-12, V. 1-2 AFR 300-8 AFR 300-3 AFM 171-100, V. 1-4 JANAP 128 AFR 23-40 DI-A-5027 ASD-TR-76-11, V. III JANAP 201(1) DI-E-3127 DoD 5200.28-M DoDI 5030.40 DI-F-30202 AFM 300-6 DoDD 5200.28 DoDI 4140.38 AFM 171-400, V. 1-2 DI-A-30023 DI-L-30309 AFR 300-12, V. 2 AFR 300-8 AFR 300-12, V. 1-2 AFM 171-100, V. 1-4
Security Requirements for Administration and Management of Acquisition of Acquisition of	ADP Security Manual ADP Sharing Program (C) ADP Manpower and Cost ADP Resource Management ADP Systems (C) ADP/MIS (C) ADPE Performance Management System ADPE Systems Configuration Report (Schematics) ADPE Cost and Utilization ADPS Management ADPS ADPS ADS Standards	[Responsibility for the Ad	
Guidelines for			
the Administration of the DoD			
Acquisition, and Management of Selection and Acquisition of Management of		[Policies on Selection,	
Procedures for Managing Safeguarding Personal Data in Procedures for Managing Security Requirements for on System]			
Air Force Data Commercially Management Guide to of Noncryptographic JANAPs and Advance Change/Study Notice (C)			
Government-Wide Automatic Data Processing (C) Automatic Data Processing (C) or Automatic Data Processing (C) management Information System (C)		[Security Requirements f (Automatic Data Processing M	
ic Data Processing Equipment (C)		[Automat	
atic Data Processing Systems (C)		[Security Requirements for Autom	
atic Data Processing Systems (C)		[Procedures for Managing Autom	
Automatic Data Systems (C)			

Computer Acquisition Office (AFCAO)	Air Force	AFR 23-24
e Data Systems Design Center (AFSDSC)	Air Force	AFR 23-42
Numerical Index of AFSC Publications		AFLCR 0-2
Air Force Logistics Command (AFLC)		AFR 23-2
)		
AFSC Acquisition Management Information System (AMIS)		AFSCM 70-13
AFSC Aerospace Resources and Configuration System (ARCS) (DSD: G299(RY))		AFSCM 171-271
AFSC Business Strategy Panel		AFSCM 70-2
AFSC Design Handbook Changes		DI-E-3'38
AFSC Design Handbooks		AFSCM -4
AFSC Management and Scientific Information System (MASIS) (DSD: B458) (AFSCM 8 -14
AFSC MIPR Liaison Office		AFSCM -11
AFSC Organizations	Laboratory Rese	AFSCM 80-23
AFSC Procurement Evaluation Panel		AFSCM 70-7
AFSC Procurement Summary Report, (RCS: SYS-PMX(M)7601)		AFSCM 70-12
AFSC Publications		AFSCM 0-2
AFSC PR-MIPR Control Offices and the AFSC MIPR Liaison Office	Fun	AFSCM 70-1
AFSC Technical Report Program		AFSCM 80-20
AFSC)		AFR 23-8
Air Force Systems Command (AFSC)	Air Force	AFR 23-36
e Test and Evaluation Center (AFTEC)		AFSCM 800-14
Joint		AFSCM 70-13
Management Information System (AMIS)	AFSC Acquisition M	DoDD 5000.19-L, V.11
ta Requirements Control List (AMSDL)	Department of Defense Acquisitio	FIPS Pub 17-1
for Information Interchange (ANSI X3.16-1966)	Character Structure and Characte	FIPS Pub 3-1
EXCHANGE (800 Cpi, NRZI, with ANSI X3.22-1973)	Recorded Magnetic Tape for Infor	FIPS Pub 18-1
for Information Interchange (ANSI X3.25-1968)	Character Structure and Characte	FIPS Pub 36
ters of ASCII (FIPS 1) (With ANSI X3.32-1973)	Graphical Representation of the	FIPS Pub 25
E (1600 Cpi, Phase Encoded) (ANSI X3.39-1973)	Recorded Magnetic Tape for Infor	FIPS Pub 24
E (1600 Cpi, Phase Encoded) (ANSI X3.39-1973)	Flowchart Symbols and their Usag	ANSI X3.37-1977
APT		AFSCM 171-271
ces and Configuration System (ARCS) (DSD: G299(RY))	AFSC Aerospace Resour	FIPS Pub 36
n of the Control Characters of ASCII (FIPS 1) (With ANSI X3.32-1973)	Graphical Representatio	FIPS Pub 42-1
Guidelines for Benchmarking ASDP Systems in the Competitive Procurement Environment	Computer Software/	DI-E-30145
Computer Program/Computer Data Base Configuration Item(s)		DI-E-30150
Visual Data		AFR 70-8
Data		DI-E-30106
Basic FORTRAN		ANSI X3.10-1966
teragency Support		AFR 400-27
Administration and Support of Basic Research by the DoD (DDR&E)		DoDD 3210.1
Guidelines for Benchmarking ASDP Systems in the Competitive Procurement Environment		FIPS Pub 42-1
ation Interchange in Serial by Bit Data Transmission	Bit Sequencing of the Code for I	FIPS Pub 16-1
ata Transmission	Bit Sequencing of the Code for Information Interchange in Serial by Bit D	FIPS Pub 16-1
Extension Techniques in 7 or 8 Bits	Code	FIPS Pub 35
Program Acquisition Visibility		DI-S-3607
Schematic		ESDR 178-6
Briefings		DoDI 7110.2
Budget Guidance for Value Engineering (C)		

USAF	Budget Manual	AFM 172-1, V.1-2
Uniform	Budget/Cost Terms and Definitions	DoDI 5000.33
	Budgeting for Operations	AFM 172-1, V.3
	Budgeting Information System	AFR 300-3
	Bulletin	TAB
	Bulletins, and Lubrication Orders	DA PAM 310-4
	Bulletins, Supply Manuals (types 7, 8, and 9),	DA PAM 310-4
	Publications of the National	NBS Spec. Pub. 305
	Bureau of Standards	AFSCR 70-2
AFSC	Business Strategy Panel	AFSCR 70-8
Small	Business, Contractor Relations, and Procurement Source	ESDR 70-8
	B3500 (Phase II) Data Systems Publications	AFR 5-12
	B458) (RCS: SYS-DL(AR)7501)	AFSCR 80-14
Information System (MASIS) (DSD:	AFSC Management and Scientific I	DoDD 5000.19
of Information Requirements (C)	Policies for the Management and	DoDI 5000.22
Computer Institute (DODCI) (C)	Guide to Estimating Costs	DoDD 5160.49
ated Data System Development (C)	Department of Defense	DoDI 5010.27
atic Data Processing Program (C)	Management of Autom	DoDD 5100.40
d Acquisition Reports (SAR) (C)	Responsibility for the Administr	DoDI 7000.3
e Supply Agency Publications (C)	Selecte	DoDI 5025.7
ent-Wide ADP Sharing Program (C)	Defens	DoDI 5030.40
ic Data Processing Resources (C)	Governm	DoDD 4105.55
idance for Value Engineering (C)	Selection and Acquisition of Aut	DoDI 7110.2
iment Reutilization Program (C)	Budget Gu	DoDD 4160.19
lements and Related Features (C)	DoD Automatic Data Processing Eq	DoDD 5000.18
ler Testing Service (FCTS) (C)	Implementation of Standard Data	DoDI 7900.1
munications System Standards (C)	Federal COBOL Compi	JCSP 10
Information System (ADP/MIS) (C)	Tactical Command and Control and	DoDI 4140.38
nse and its Major Components (C)	Automatic Data Processing Manage	DoDD 5100.1
nt for Selected Acquisitions (C)	Functions of the Department of D	DoDI 7000.2
odes Standardization Program (C)	Performance Measureme	DoDD 5000.11
of the Department of Defense (C)	Data Elements and Data C	DoDD 7000.1
ry of Defense (Comptroller) (C)	Resource Management Systems	DoDD 5118.3
s Standardization Procedures (C)	Assistant Secreta	DoDD 5000.12
stem Documentation Standards (C)	Data Elements and Data Code	DoDI 4120.17
ta Processing (ADP) Systems (C)	DoD Automated Data Sy	DoDD 5200.28
tems Documentation Standards (C)	Security Requirements for Automa	DoDI 7935.1
tion for Resource Management (C)	DoD Automated Data Sys	DoDI 7041.3
Cost/Schedule Status Reports (C)	Economic Analysis and Program Ev	DoDD 5000.9
Program and Related Services (C)	Standardiza	DoDI 7000.10
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Views, Configuration Audits and	Department of Defense	DoDD 7000.1
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Alphabetical Listing	Department of Defense Directive System	DoDD 5025-1
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	Department of Defense Index of Specifications and Standards - Part II, Nu	(DoDISS Part II)
	Department of Defense Management Review and Improvement Program (I&L)	DoDD 5010.28
	Department of Defense Standardization Program (I&L)	DoDD 4120.3
and Air Force Acquisition D	Department of Defense, Joint Chiefs of Staff, & Interservice Publications	AFR 0-4
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indexes, Catalogs, and Lists of	Describing Computer Programs and Automated Data Systems	FIPS Pub 30
Software Summary for	Describing Information Interchange Formats	FIPS Pub 20
Guidelines for	Description	DI-H-5256
Computer Software Technical	Description	RADC-TR-74-300, V.X
Chief Programmer Team Operation	Description (FD)	DI-E-30104
Functional	Description of the Federal Information Processing Standards Register	FIPS Pub 0
General	Description Document	DI-E-30150
Visual Data Base	Description Document (Computer Programs)	DI-E-3121
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fications (Including Purchase	Design and Computer-Aided Manufacturing Standards and Specifications for	MIL-STD-960
Application in Computer-Aided	Design and Development	SAMSO Exhibit 73-3
Practices for Computer Software	Design to Cost (DDR&E)	DoDD 5000.28
	Design to Cost Data	DI-A-5345
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Subsystem	Design Analysis Report	DI-S-3581
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tems and Associated Equipment,	Design Criteria for	MIL-STD-415D
Human Engineering	Design Criteria for Military Systems, Equipments and Facilities	MIL-STD-1472B
System Modification	Design Data and Reports	DI-E-3114
	Design Disclosure for Systems and Equipment	MIL-HDBK 226
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1 (Conceptual and Development	Design-to-Cost Guide	DI-E-30102
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	Developed	AFSCM 80-5
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Rome Air Research and Embursement Type Research and s for Fixed-Price Research and ists, Level 1 (Conceptual and ir Force In-House Research and Computer Program Subsystem Computer Program Computer Program sonnel Subsystem/Human Factors			
Exploratory Technical Publications for Subsystem Engineering Computer Program Computer Program Computer Program Configuration Item Guide to the Computer Program itoring and Reporting Software Preparation of Advanced Assessments of Advanced ram Configuration Item (CPCI) Reliability ures (Exploratory or Advanced Documentation, munications Security Research, Research, Request for Control - Engineering Changes, Control - Engineering Changes, Terms for Test, Measurement and Functional Flow Schematic Block			
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Program Action	Directive (PAD)	AFSCR 27-7
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	Directory of DoD Engineering Data Repositories	MIL-HDBK 331B
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Design	Discussion of the Application of OMB Circular No. A-109	OFFPP Pamphlet No. 1
Major System Acquisition - A	Distribution	MIL-STD-781B
Reliability Tests Exponential	Distribution and Control	AFR 67-28
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	Do's and Don'ts of Air Force Industry Relations	AFR 70-1
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An Engineering Design Approach	Document (Computer Programs)	DI-H-3261A
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ing Equipment Computer Program	Documentation	DI-A-30001
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s for Digital Computer Program	Documentation	DI-M-3415
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Contract and	Documentation of Air Force Programs	DI-E-30109
Guidelines for	Documentation of Computer Programs and Automated Data Systems	AFR 27-9
ter Program Configuration Item	Documentation Catalog and Glossary	FPS Pub 38
Defense	Documentation Center for Scientific and Technical Information	DI-M-30406
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Program/Subroutine	Documentation Computer Software	DoDI 5100.38
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An Air Force Guide to Software	Documentation Requirements	MIL-STD-35C
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DoD Automated Data System	Documentation Standards (C)	SECNAVINST 3560.1
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DoD Automated Data System	Documentation Standards Manual	DoDI 7935.1
	Documentation, Development, Acquisition and Implementation	DoD 4120.17-M
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buton Statements on Technical	Documents (DDR&E)	(Distri	DoDD 5200.20
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Data Base Specification (DS)		DI-E-30106
Release of Supplies Assigned to	Implementing Procedures for Pu	AFR 70-17
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afety	Economic Analysis and Program Evaluation for Resource Management (C)	DI-S-3569
	Effectiveness Program Plan	MIL-STD-721B
	Effectiveness Terms for Reliability, Maintainability, Human Factors and S	AFM 100-20
Reliability Prediction of	Electrical Record Communications	MIL-HDBK 217B
ality Assurance Management for	Electronic Equipment	ESDM 74-1
Test Provisions for	Electronic Systems	MIL-STD-4150
	Electronic Systems and Associated Equipment, Design Criteria for	AFSCR 23-10
	Electronic Systems Division	ESDR 173-1
	Electronic Systems Test and Evaluation	AFSC DH 4-2
	Electronics Terminology	AFM 11-1, V.3
Communications	Element Definitions	MIL-STD-1388/2
Logistic Support Analysis Data	Emanations Security Publications	AFR 8-9
F Communication's Security and	Encoded) (ANSI X3.39-1973)	FIPS Pub 24
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Value	Engineering (C)	AFSCP 207-1
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Budget Guidance for Value	Engineering and Associated Lists, Level 1 (Conceptual and Development De	DoD-D-1000B
Drawings,	Engineering and Management	DI-E-7013A
Drawings,	Engineering and Technical Services	AFR 800-15
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	Engineering and Technical Services Management and Control	AFM 66-18
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Configuration Control -	Engineering Change Proposals (ECPs)	DI-F-3128
Configuration Control -	Engineering Changes, Deviations and Waivers (Short Form)	MIL-STD-481A
Deferred Requisitioning of	Engineering Changes, Deviations, and Waivers	MIL-S-30-480
	Engineering Data	AFSCR/AFLCR 10-2
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Acquisition of	Engineering Drawings and Associated Lists	AFSCR/AFLCR 800-8
	Engineering Management	MIL-STD-499A(USAF)
System	Engineering Management Plan (SEMP)	DI-S-3618
Standard	Engineering Practices for Computer Software Design and Development	SAISO Exhibit 73-3
Air Force Value	Engineering Program	AFR 320-1
DoD Value	Engineering Program (I&L)	DoDD 5010.8
Value	Engineering Program Requirements	MIL-V-38352
Human	Engineering Requirements for Military Systems, Equipment and Facilities	MIL-H-46855A
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ign Disclosure for Systems and	Equipment	MIL-HDBK 226
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bility Program for Systems and	Equipment Development and Production	DI-H-3277
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ercial Computer and Peripheral	Equipment Manuals	DI-M-5091
merical Cross Reference Index,	Equipment Numbers to Technical Orders	DI-M-5085
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DoD Automatic Data Processing	Equipment Reutilization Manual	DI-M-5110A
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System or	Equipment Turnover		AFR 800-19
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Requirements (for Systems and	Equipments)]Maintainability Program	MIL-STD-470
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Technical	Evaluation of Merit in Spaceborne Systems		AFR 80-53
Definition and	Evaluation Center (AFTEC)		SAMSO-TR-68-268
Air Force Test and	Evaluation Needs/Exercise Requirements Analysis		AFR 23-36
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<p> ribing Information Interchange and Functional Indexes of ESD ction Directives, Letters, and nd Functional Index of Command umerical Index of Departmental ed Documents) Outline of tary Handbooks) Outline of Specifications, Types and Optical Character Recognition , Test and Evaluation (RDI&E) Configuration Item Product </p> <p> Numerical and Numerical and Program Support Library </p> <p> Base Procurement SC MPR Liaison Office </p> <p> Contract Cost Performance, Contract Limitation of Cost and BOL Compiler Testing Service (FD) Functional Description (FD) Control Characters of ASCII (FOMM) Oriented Maintenance Manual (FORTAN Basic </p> <p> Code Item Documentation Catalog and Air Force Catalog and US Air Force cellaneous Air Force and Other nthly Catalog of United States rial Products and Services for ed Materiel Assets Utilized as l for Major Acquisition Prog </p> <p> ith ANSI X3-32-1973) 6D Source Selection Policy and tion Management Implementation Information Exchange Planning </p>	<p> Formats Forms Forms Forms Forms Forms and Instructions for the Preparation of Specifications and Associat Forms and Instructions for the Preparation of Military Standards and Mil Forms, Military (Os) Series Forms, 1975 Forward Financing Function Specification Functional Description (FD) Functional Flow Diagrams Functional Index of Command Forms Functional Indexes of ESD Forms Functional Requirements Functional Specification Contractor Developed Functionally Oriented Maintenance Manual (FOMM) Writer's Guide for MIL-M Functions Functions and Responsibilities of AFSC PR-MIPR Control Offices and the AF Functions of the Department of Defense and its Major Components (C) Funds Expenditure Chart Funds Status and Cost/Schedule Status Reports (C) Funds Under Cost Type Contracts FCCIS) (C) FD) FIPS 1) (With ANSI X3.32-1973) FOMM) Writer's Guide for MIL-M-24100B FORTAN FORTAN </p> <p> Generation Specifications (Software) Glossary Glossary of Comptroller Terms Glossary of Computer Program and Programming Documentation Glossary of Standardized Terms Government Agency Publications Government Publications Government Use Government-Furnished Materiel for Major Acquisition Progra(Government-Own Government-Owned Materiel Assets Utilized as Government-Furnished Materie Government-Wide ADP Sharing Program (C) Graphical Representation of the Control Characters of ASCII (FIPS 1) (W Guidance Guidance (DDR&E) Guidance (FOUO) </p>	<p> [Guidelines for Desc Numerical Publication of ESD Procurement a Numerical a N Guidelines for Specifications and Associat Research, Development Guidelines for </p>	<p> FIPS Pub 20 ESDR 0-9 ESDR 70-4 AFSCR 0-9 AFR 0-9 MIL-STD-961 MIL-STD-962 MIL-S-83490/2 FIPS Pub 40 AFSCR 172-9 DI-E-3132 DI-E-30104 DI-S-3604 AFSCR 0-9 ESDR 0-9 RADC-IR-74-300, V.V DI-E-5384 MIL-HDBK 242 AFR 70-8 AFSCM 70-1 DoDD 5100.1 DI-A-5001A DoDI 7000.10 DI-F-6004A ASPR Sec. 1, Pt. 20 DoDI 7900.1 DI-E-30104 FIPS Pub 36 MIL-HDBK 242 ANSI X3.10-1966 ANSI X3.9-1966 DI-H-5071 DI-M-30406 AFM 11-1, V.2 DI-M-3415 AFM 11-1, V.1 AFR 0-16 (US Govt. Pubs) OMB Circular A-76 DoDI 4140.41 DoDI 4140.41 DoDI 5030.40 FIPS Pub 36 AFSCR 80-15 DoDI 5010.21 JCSP 12, V.1 </p>
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Budget	Guidance for Value Engineering (C)	DoDI 7110.2
Joint Design-to-Cost	Guide	AFSCP/AFLCP 800-19
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	Guide to Estimating Costs of Information Requirements (C)	ESD-TR-75-365
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guration System (ARCS) (DSD):	G299(RY)	AFR 800-22
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Computer Program Configuration	Item (CPCI) Development Test and Evaluation Test Report	DI-H-5072A
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Programming	Language Standards	RADC-TR-74-300, V.1
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ontrol Offices and the AFSC MIPR	Liaison Offices	AFR 23-34
and - Scientific and Technical	Library Functional Requirements	RADC-TR-74-300, V.V
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	Local Purchase Program	AFR 70-18
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Maintainability Program Requirements (for Systems and Equipments)			MIL-STD-471A
Maintainability Programs for Systems, Subsystems, Equipment, and Munition			MIL-HDBK 472
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	Management Accounting Reports (Machine or Manually Prepared)	DI-E-3133
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	Management Control Systems and Financial Reporting on Selected Acquisitio	AFSCR 70-11
Software Related Standards	Management Data Collection and Reporting	RADC-TR-74-300, V.IX
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Software Acquisition	Management Guidebook: Reviews and Audits	ESD-TR-78-117
	Management Guidebook: Software Cost Estimation and Measurement	ESD-TR-78-140

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Software Acquisition	Management Guidebook: Software Maintenance	ESD-TR-77-327
Software Acquisition	Management Guidebook: Software Quality Assurance	ESD-TR-77-255
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LIST OF ABBREVIATIONS

<u>Abbreviation</u>	<u>Definition</u>
ACSN	Advance Change/Study Notice
ADP	Automatic Data Processing
ADPE	Automatic Data Processing Equipment
ADPS	Automated Data Processing System
ADS	Automated Data Systems
AF	Air Force
AFA/MS	Air Force Audit/Management System
AFCAO	Air Force Computer Acquisition Office
AFCMD	Air Force Contract Management Division
AFCS	Air Force Communications Service
AFSDC	Air Force Data Systems Design Center
AFLC	Air Force Logistics Command
AFLCM	AFLC Manual
AFLCP	AFLC Pamphlet
AFLCR	AFLC Regulation
AFM	Air Force Manual
AFP	Air Force Pamphlet
AFPRO	Air Force Plant Representation Office
AFR	Air Force Regulation
AFSC	Air Force Systems Command
AFSCM	AFSC Manual
AFSCP	AFSC Pamphlet
AFSCR	AFSC Regulation
AFSCRIP	AFSC Periodical
AFTEC	Air Force Test and Evaluation Center
AMC	Army Materiel Command
AMIS	Acquisition Management Information Systems
AMSDL	DoD Acquisition Management Systems and Data Requirements Control List
AMSL	Acquisition Management Systems List
AN	Army/Navy
ANA	Army/Navy/Air Force
AND	Air Force/Navy Aeronautical Design Standard
ANSI	American National Standards Institute
APT	Automatically Programmed Tool
ARCS	Aerospace Resources and Configuration System
ASCI1	American Standard Code for Information Interchange
ASD	Aeronautical Systems Division
ASPR	Armed Services Procurement Regulation
ATC	Air Training Command
BA/PA	Budget Authorization/Program Authorization
BU	Bulletin
BULL	Bulletin
C	Comptroller
C3	Command, Control, and Communications
CCB	Configuration Control Board
CCDR	Contractor Cost Data Reporting
CDR	Critical Design Review

LIST OF ABBREVIATIONS (Continued)

<u>Abbreviation</u>	<u>Definition</u>
CDRL	Contract Data Requirements List
CFE	Contractor-Furnished Equipment
CFSR	Contract Funds Status Report
CI	Configuration Item
CMF	Configuration Management Plan
COBOL	Common Business-Oriented Language
COMSEC	Communications Security
CONUS	Continental United States
CPC	Computer Program Component
CPCI	Computer Program Configuration Item
CPDP	Computer Program Development Plan
CPR	Cost Performance Report
CRISP	Computer Resources Integrated Support Plan
CRWG	Computer Resource Working Group
CSAS	Configuration Status Accounting System
CWBS	Contract Work Breakdown Structure
C/SCSC	Cost/Schedule Control Systems Criteria
C/SSR	Cost/Schedule Status Report
DAR	Data Automation Requirement
DARCOM	Army Development and Readiness Command
DASA	Defense Atomic Support Agency
DCA	Defense Communications Agency
DCP	Decision Coordinating Paper
DDC	Defense Documentation Center
DDR&E	Director of Defense Research and Evaluation
DH	Design Handbook
DI	Data Item
DIA	Defense Intelligence Agency
DIAI	DIA Instruction
DIAH	DIA Manual
DIAR	DIA Regulation
DID	Data Item Description
DIDS	Defense Integrated Data System
DLA	Defense Logistics Agency
DoD	Department of Defense
DoDD	Department of Defense Directive
DoDI	Department of Defense Instruction
DoDISS	DoD Index of Specifications and Standards
DPC	Defense Procurement Circular
DS	Data Base Specification
DSA	Defense Supply Agency
DSAP	Data System Automation Program
DSARC	Defense Systems Acquisition Review Council
DSP	Defense Standardization Program
DT&E	Development Test and Evaluation
DTACCS	Director of Telecommunications, Command and Control Systems
ECIP	Exercising Capability Implementation Plan
ECO	Engineering Change Order

LIST OF ABBREVIATIONS (Continued)

<u>Abbreviation</u>	<u>Definition</u>
ECP	Engineering Change Proposal
ESD	Electronic Systems Division
ESDM	ESD Manual
ESDP	ESD Pamphlet
ESDR	ESD Regulation
FCA	Functional Configuration Audit
FCCTS	Federal COBOL Compiler Testing Service
FCRC	Federal Contract Research Center
FED	Federal
FD	Functional Description
FIPS	Federal Information Processing Standard
FOEM	Functionally Oriented Maintenance Manual
FORTTRAN	Formula Translator
FOT&E	Follow-on Operational Test and Evaluation
FOUO	For Official Use Only
FQR	Formal Qualification Review
FQT	Formal Qualification Test
GFE	Government-Furnished Equipment
GFP	Government-Furnished Property
GSA	General Services Administration
HDBK	Handbook
HFDP	Human Factors Development Plan
HOL	High-Order Language
HQ	Headquarters
I	Intelligence
I&L	Installations and Logistics
ICD	Interface Control Drawing
ICWG	Interface Control Working Group
ID	Identifier
ILS	Integrated Logistics Support
IOC	Initial Operational Capability
IOT&E	Initial Operational Test and Evaluation
JANAP	Joint Army/Navy/Air Force/DASA
JCS	Joint Chiefs of Staff
JCSP	JCS Publication
JOTR	Joint Operational and Technical Review
JOVIAL	Jules' Own Version of the International Algebraic Language
KWIC	Keyword in Context
LCC	Life Cycle Costing
MAJCOM	Major Command
MASIS	AFSC Management and Scientific Information System
MCI	ESD Computer Systems Engineering Directorate
MIL	Military
MILSCAP	Military Standard Contract Administration Procedures
MIPR	Military Interdepartmental Purchase Request
MIS	Management Information System
MM	Program Maintenance Manual
MOA	Memorandum of Agreement

LIST OF ABBREVIATIONS (Continued)

<u>Abbreviation</u>	<u>Definition</u>
NBS	National Bureau of Standards
NMC	Naval Materiel Command
NSA	National Security Agency
NTIS	National Technical Information Service
OM	Computer Operation Manual
OMB	Office of Management and Budget
OPR	Office of Primary Responsibility
ORLA	Optimum Repair Level Analysis
O/S CMP	Operational/Support Configuration Management Procedures
OSD	Office of the Secretary of Defense
OT&E	Operational Test and Evaluation
PA	Procurement Authorization
PA&E	Program Analysis and Evaluation
PBS	Program Breakdown Structure
PCA	Physical Configuration Audit
PCO	Procuring Contracting Officer
PD	Project Directive
PDR	Preliminary Design Review
PERT	Program Evaluation and Review Technique
PL/1	Programming Language/1
PM	Program Manager
PMD	Program Management Directive
PMF	Program Management Plan
PMRT	Program Management Responsibility Transfer
PO	Program Office
PQT	Preliminary Qualification Test
PR	Purchase Request
PS	Program Specification
PSTE	Personnel Subsystem Test and Evaluation
QA	Quality Assurance
QPP	Quality Program Plan
QQPRI	Qualitative and Quantitative Personnel Requirements Information
RADC	Rome Air Development Center
R&D	Research and Development
RD	Data Requirements Document
RDT&E	Research, Development, Test and Evaluation
REV	Revision
RFP	Request for Proposal
ROC	Required Operational Capability
RSS	Regulations, Specifications and Standards
S&T	Scientific and Technical
SA	Supplemental Agreement
SAD	System Allocation Document
SAF	Secretary of the Air Force
SAM	Software Acquisition Management
SAMSO	Space and Missile Systems Organization
SAR	Selected Acquisition Report

LIST OF ABBREVIATIONS (Concluded)

<u>Abbreviation</u>	<u>Definition</u>
SCN	Specification Change Notice
SDR	System Design Review
SECDEF	Secretary of Defense
SEMP	System Engineering Management Plan
SIOP	Single Integrated Operations Plan
SON	Statement of Operational Need
SOW	Statement of Work
SQA	Software Quality Assurance
SRR	System Requirements Review
SS	System/Subsystem Specification
SSD	Special Systems Division
SSP	System Security Plan
SSPP	System Safety Program Plan
STD	Standard
TAB	Technical Abstracts Bulletin
T&E	Test and Evaluation
TBD	To be Determined
TCTO	Time Compliance Technical Order
TEMP	Test & Evaluation Master Plan
TEOA	Test and Evaluation Objectives Annex (of the PMD)
TFRD	Test Facility Requirements Document
TM	Technical Manual
TO	Technical Order
TP	Test and Implementation Plan
TR	Test Analysis Report
TR	Technical Report
TRCO	Technical Representatives of the Contracting Office
UDI	Unique Data Item
UM	User's Manual
US	United States
USAF	United States Air Force
V&V	Validation and Verification
WBS	Work Breakdown Structure
WWMCCS	World-Wide Military Command and Control System

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